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CU AMIGA MAGAZINE AUGUST

#### **Public Domain**

#### RQ PD Scene There a a lot of games this month, which means less swirty dames than one Tech Ed very little money.

93 PD Utilities More programs to enhance yonr Amiga and make life scalar it value for money and variety is what you're after their shack

#### Games

#### PREVIEW

Primal Rage 35 look at the game itself

#### REVIEWS

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#### **Cover Feature**

#### Troubleshooter 26

Computers have an infuriating habit of not working when you really want them to. When you buy new software or hardware or take them out of the closet to use them after the summar holiday, they suddenly

throw up a mysterious error or simply refuse to boot. Even in normal, everyday usa, you may not be making the most of your Amiga because it simply won't let you. With a wealth of Q&A experienca behind us, let CU Amiga Magazine make things easiar.



Vampyra

Snip Tips

Valhalla 2 Solution



Clarissa 2.0 8

Multi CX 9

One of the best Workbensh utilities to appear in years, MuluCX has a string of uselys tricks up its sleaves

Super Streetfighter 12

Can you beat the mighty Honda while playing a burn-baring martial a nymphetra? Wall have a go with this

#### **Get Serious**



**DPaint V** The long ewarted latest version of the most tamous paint package ever in it a significant improvement at an out of data classic?

CyberVision 24-bit graphics 70 The letest and perhaps greatest of the third party video boards, the CyberVision is a true 64. bit video angine Doas it shape up? Will this be

Cyberstorm 68080 71 The Issteat Amoga accelerator aver and toxted by Amiga Technologies as due for inclusion in the new 4000/080. Here lies the future and the Apollo 1220 76 A1200 budget accelerator put through its paces. Under powered accelerator, over powered RAM board or semewhere in between?

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National Lottery

A look at softwere that promises to give you a secret edge to pull of the multi-million jackput Techno-plus Joypad 79

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## News

increasing numbers of CDs available, at space (650Mb) to fill up, we take a look at how these reed only slisks are produced and what they are capable of

**CD** Production

CD-Production

News

An acclusive interview with Jonathon Anderson, boss of the newly formed UK branch of Amiga Technologies \_ see page 231

The One becomes the latest sasualty in the downturn of the Amiga a fortunes, cheaper IDE CD-ROMS are about to become a reality. new games are ennounced including manage-ment sims for Formula 1 and British Touring Car Challenge and a free DOpen 5 upgrade is

### **CD-ROM Reviews**

World of Clip-Art 84

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#### **Editorial**



Have you ever had to work with an instant Australian? Southern hemisphere readers will either understand

what I m getting at at be highly insulted. The person in question pined us this issue as a staff writer against zome stiff A3000, his Darkside BBS, beer brewing. Comms programming.

evelstion that the A1200 will be priced not at £250 but more than £100 above this (see report on page 23). This is bed news, unless as Jonathon explained the software promotional pack that goes out with it is absolutely superb. This price is, in my opinion, too high and I hope something can be done about it before launch. Surely a lower, but fixed RRP would prevent the downward spiraling price wars that did much to damage the Amigs in the

#### **BACK ISSUES** 109 IK, if you've missed any issues of this febbe may you have your chance to get up to date on page 109 - that's e one you want hear's already sold out | Oh. hurry! SUBSCRIPTIONS 120 Top comedy due Frone Malloch and Katharina Kleeb have raised the enbacript

e cellular phone for new UK subscribers Thera's a cool low cost subsoffer tool

**Buyers Gulde** 100 We look at that meet essential of parighersis, the hard drive. How why and how much is presented for your consideration Directory Opus 101 al on the excellent Directory Onus, Andy Luaning tells it how it is. Image FX 102 Teny Horgan's excuse for some etrange looking plotures, image Composition is the subject of this months lacture **ProCalc** 104 Andy Leaning wreps up the ProCale tutorial with a bang 110 Comms Head Mat Settinson follows up lest months leternet feeture Which modem and what to do with it **Graphics Masterclass** 116 Pater Lee gets to gripe with the new texture features in Q+A Masterclass 118 Automating and time synchronising with John Kennesy's Amigs going bump in the night.

Questions and Answers

Backchat

Points of View

Frequently Asked Questions

Readers write and you can read what they write, or mayly you've written what other readers will read? Oh forget it.

CU Amigs a new man, Mat Bettinson, expresses conserns about GVPs take-over and the alling American market.

ding the FAQ, John Kennedy deals swiftly with some more

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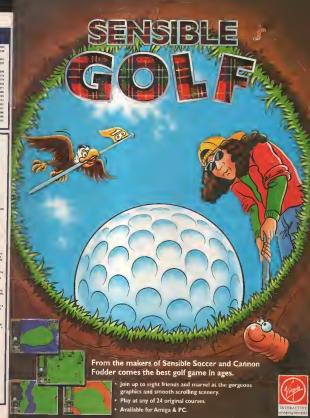
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faster version of the previous Clar All AGA Amigas with 2Mb. Hard drive recommended

Floppy users:
 See Special loading instructions on page 16

System requirements
Claries 2 from this month's cover disk will run on any
Amige with Workbench 2 or higher and a minimum of 1Mb
of RAM. However, extra RAM and a hard drive are recommended for all but the smallest projects. Animations use up a lot of memory, and the program also needs memory for its own buffers. If you find Clarisse will not play or process one of your animations, return to the program used to create the animation, and reduce the number of colours, screen

resolution and frames until it's small enough to headle.

Anyone using a IMb Amiga who wants to get into enination is strongly edvised to upgrade their RAM in fact, 
anyone who is still using a IMb Amiga for anything at all should think seriously about upgrading!

Clarissa Disk 2
Disk 2 of Clarissa (entitled Clarissa-Demo1) contains a demonstration animation and the SSAPlay utility. SSAPlay is used to reglay SSA animations without having to go use the Clarissa program. For full details on using SSAPlay. reed the document on the disk. To view the demo snims tion, double click on the icon marked Demo 1.

#### **Super Smooth Animation System**

Give your animations a touch of class, by transforming them with Clarissa 2, the super smooth animation system.

e all know how edent the Amiga is at creating and playing animations, but there's elweys room for improvement For example, have you ever had an animation that just wasn't quite smooth enough during playback? The chances ere that Clarisse can get it running at 50 frames per second, the magical figure required for silky smooth movement

#### Getting started

Before you toad up the Clanssa program, you'll need an anime tion to work on There's one supplied on the second Clarisse disk but you'll get a better idea of what's possible if you use one of Vour own

Clanssa can load Anim5 files and sequences of IFF pictures files. These can be created in a number of programs such as Deluxe Paint, Brilliance, Imagine. Real 3D and many others If by any chance you don't have ony program capable of creating an Anim5 file or a sequence of IFF images, then you can still experiment with the demo animation



1. First of all refer to page 16 for full loading instructions. Done that? OK now come back and

start reading this bit Once Chassa has leaded, the first thing you need to do is load in an animation. To do this, hold down the night mouse button and select Load Animation from the Project menu



2. A window will appear giving you information on the enimetion. You now need to tell it which buffer to load the animation into (Master, Source A. B. C. or D). Click on the button merker Load into Source A



3. If you see a window stating that the enimation cannot be red resented in AGA mode, fust click on the box merked Yes, and the anim will be converted



4 Betera you can process your anneation if must be converted to anneation of must be converted to the converted to select an anneation for converted to the converted to select an anneation for converted to select an anneation and the converted to select an anneation of t



5. Now you're ready to convert your animation into Clarissa's SSA (super smooth) format. Click on the small circle icon in the top panel, and then click on OK when asked if you want to Produce/ expand the animation.



marked with a triangle (it's between two other iscone with left and right facing arrows on them). You should now aen your animation playing back amoother and faster than ever before!

7. To save out your new super amooth earmanton, select Save Animation from the Project moru select the destination from the Project moru select the destination for your new animations, and click on Save to sever four. And there you see a not not a sever four. And there you

Go the magazine, seen the disk now get the video ....

The best way to learn about Clarisse is to take adventage of the free video offer with this megazine. This takes you through the mean sees of the system with sudo and visual guides to getting the most from the propern. See the backing board from this measuries for details.

If your board has gone estrey, call Burgess Video on 01874 611 633 and ask about the free Clarizsa video offer from CU Amige Megaziae.

Tricks of the trade

Clarissa's main function is to coavert Asim5 mimetions into a faster amouther format called SSA. SSA enimetions play back feater and smoother by exploiting a side effect of the Amige's interlace mode.

interface mode. Interface mode doubles the vertical resolution of the screen by interface mode doubles the vertical resolution of the screen by interface as extra line between ceels of the original lines in this picture. It does not be every half famely, which on a PAI display is every 20th of a second, in effect, it studies screens are made up of two images, which are replaylif before from one to the other, it's this flighing that leads to the flicker usually associated with interface modes.

When Claricsa converts a normal Anim5 enimation. It uses the double frame buffering of interiors mode to display two as many frames in the time that would normally be used to display one frames. hence the speed increase. Oace this speed iscrease is such that 50 frames can be displayed every second the same display rate of a PAL. TV or monitor), the eximution suddisplay takes on a silkly smooth qualify.

# **MultiCX Workbench Utilities**

# Requires Workbench 2 or higher MultiCX will make your Workbench

have it

a nicer place to be.

mazingly small for white is offered, Mul-CX's is between load of united set in one small commodity. It does the job partial schemodity, it does the job partial schemodity, the does not set in ecommodity, it world work under 25.1.3 arises the commodities feature was introduced in 20. and entitler in CS.3.0 and entitler i

ht over WBStartup drawer Strengely MubiCX has no graphic user interface for editing the perameters Instead they are all specified in the icon loof types. Double click MubiCX once to start and agen to once to that it and agen to both viewat/fedtor. There you can see all of the configuration. parameters for Mulic/X As soon as you have made some changes, litting the save button will bring them assamly into affect. Mulic/X has a lot of features, some of which include screen blanking (plain or more); mouse acceleration with start threshold, screen young (can be assamed to the middle button of a three button with start threshold, screen middle out on the start with start threshold, screen with start middle button of a three button overlain and activation. Other features include anterina

hex ASCII codes we the keyped for strange characters "Caspath" is stope hotseys being affected by caps lock and melass shift do uncapitalised letters. There are hot keys for closing and zooming windows and flushing libraries it, will remember the best active window Whan cycling screens (very heady). PopDII makes a CLI pop up on a hattey, there's a border blenking, and an option to turn off the disk



A The Melti-CX parameters are adjusted via the icon feelbypes as sean hery. As seen on some in select od, if the MCX is running then the charges well come and affect unumentatory.

drive clicking. The "symbol can be made to act as a valid validord like "#", the sudio filter can be switched on and off, and much more besides. Full documentation is on the cover disk and is worth a look for a more indepth explanation of all the features that MultiCX provides Many of the configuration values that can be entered into the tooltypes are elready there so you can see how many of them work MulbCX can be removed from the system by the Workbench utility CX-Exchenge. Have fun!

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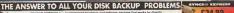
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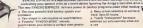
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# Super Street Fighter

#### An exclusive demo from US Gold!

Get out your best joystick, plug it in and get wiggling. Your task is to help Cemmy defeat E. Honda, the blubbery nip sumo wrestler ...

Loading: Super Streetlighter 2 is on a bootable diek, Simply Insert the diek into your drive and start up your Amige. For further instructions turn to page 16.

#### Controls

CONTROLS
Commy le fairly lightweight but feat. Every hit will not cause as muck demage a each of Honda's but with the right timing he is relatively easy to beet.

Up:	Jump
Down:	Grauch
Left:	Retreat (advence)
Right:	Advance (retreat)
Down/left:	Crouching defence
Up/left:	Jump back
Up/right:	Jump forward
Up/firm:	Jumping high
Down/lim:	Croucking kich
Left/fire:	Defensive one foot kick
Right/fire:	Offensive one foot kick
Up/right/firm:	Dive forward, serial high
Down/right/fire:	Crouching hick
Down/teft/fire:	Croucking high
Undeft/firm: Defensive b	achward jump with high

#### Hints:

(1) Merful: Gat class to Nonda, perhaps by jumping over and finding right behind kim, move streight into kim and press fire. This will melse Commy do the Impossihite. The claracter that's probably three times ker body weight and filing him marcilessiy to the ground. This takes more power from Nonde then any other single move.

(2) Useless: Down, down right, right and fire in that order will make Cammy do one of ker special moves: e rather parketic swifting torpedo kick. You might as well kit Honde with a fly swotter. All Amigas with 1 Mb

Genki Desu Ki

not change it in the name of female emancipation.

And so to the other character honds in this demo the compute plays the heavyweight sumo wrastler which pleased Alan, who as a Honds fan "Nes", hin said 'the Chice as an empressive small car, with partitier-like looks, cheeta-val secveration and it sides to read like a beopard on a buffel's bed'? from Tigo Geier impression, wearing a curity wag and a par of size 15 covidey boots.

Unfortunately you can't actually pley Honda, but this demo should give you a good idea of what the game is like to play and how fast I is Remember this is demo was taken form the A500 bets test version and US GOld have asked us to inform you that the graphics and still being updated. This is why wa didn't review it this month bu hopefully they'l have it finished by next month for us. There's elso an A1200 version with full AGA support which in terms of grephics will be closer to the console version.

uper Streetligher 2 Is one of those late conversions to the Amiga that no-one ever really expected to see, but which suddenly appeared over the horizon like e wandenng Las Vegas fighting circus. Well it's still not quite there (it should be reviewable next month) but with Lisa's love of onscreen violence this demo was created because she pleaded with US Gold to let her get in some practice pleying her favourite character Cemmy before the full version comes into the office

It had something to do with "Computing sizes being a male dominated environment, so I'm gleid that a docum, ass locking femalic chiracter hiss come elong", according to Las She was not so pleased when shin discovered that Cammy not only "kicks ass", after show as soon, and a show a soon of the cammy not only "kicks ass", after show Cammy not only "kicks ass", after show Cammy not only "kicks ass", after show came and display fair burticols to all and sundry ALUS Gold and a sundry ALUS Gold and sundry child that has a feature of the came" and "no between wall of the came" and "no between wall on the came and t



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# How t

#### Important: special floppy disk instructions Clenssa can be used from a single floppy drive 1Mb Amiga, but it's really designed for mechines with more RAM and a hard drive. Floppy

users should reed these instructions very carefully 1. Make a copy of your Workbench disk, which you will need to use each time you run Clarissa. Leave the copy of Workbench write enabled (with the tab in the closed position. All the following references to the

2. After you have decompressed your diske, insert your Workbench

disk and reset the Amige 3 When Workbench has loaded, double click the Workbench disk icon, end then double click the System icon

4. Double click the icon marked RaxMest

5. Close the window containing the RexxMast Icon In order to save memory

6. Insert the Christe Program disk end double click its icon. Double click the Icon marked Clanssa2\_Floppy

7. If you have just one floppy drive, you will need to remove the Cleusse disk to swop it for the Workbench disks five times. Be patient This is necessary as the program needs files from both disks in order

to work 8. Once the program has loaded, select Set Preferences from the Settings menu. Click on the tick box marked Workbench, which will close the Workbench screen and gain a little memory. If the tick will not disappear, gress the Left Amiga key and M to switch to the Workbench,

end check that there are no requests for you to insert disks. Close the Settings window by clicking in its top left corner 9. You may have to attempt to load an enimetion e number of times Due to the hard drive-onented nature of the program, you may receive error messages on the first couple of ettempts. If your enimetion feels to load after the third or fourth ettempt, it's probably because it's too large. In this case, go back to your animation software and reduce the resolution, number of colours and number of frames and try again 1Mb Amigas are unlikely to load more than five-ten frames of a low

#### IF YOUR DISK WON'T LOAD

resolution animation

2- Barrers all management procedes and peripherals, such as greature and sendants. Some trapitors expressions Cod eyto cotata heappoun

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DEPOSITES EXACTLY BYGGE HAPPERS WHEN YOU TRY TO CIND THE DISC

WRITE PROTECT YOUR
COVER DISKS
Befory and on snything, write protect both of your cover disks. Slide
the table in the coners on their you can see through the fittle equate hold
the wild stop you excided ally decompressing the date under the cover disks themselves.

#### Decompressing Clarissa 2 Clarissa 2 is an cover disk 113 in the form of two compressed files. Before

Clearists 2 is on cover disk 11s in the form of two compression time. Our you can but the program, you need to decompress these filter of the variety asparent claims (which must be write enabled, utilish the original cover disks). Have two spared dries on hend. All date on these tricks will be over written, so make sure they don't contain any essential files. 1. Insert cover disk 11s in the internal drive and trust the Amiga.

1. Inlant cover own: 1 is in the internal order and note the Compe.
2. Double click on the disk icon marked CU\_113.
3. Double click on the icon marked ClerissaDisk, and ineart your first spendisk when esked to do eo.
4. Follow the on-screen instructions, and replace disk 113 when seked to

4. Former the consistent metrocutoms, and reproduct user 115 wasted accept to do so. Mark your first paper side (Clarissa Program).
5. Double click on the PlayerDisk icon, and insert your second opera disk when prompted. Swop this book with the cover disk at the prompt, and label your second apara disk Player Disk.

# Clarissa 2 hard drive installation Clariss 2 works best from a hard drive. Follow these steps to Install the program on your hard drive. 1. Reset your Amiga with no dieks in the drives in order to boot from the

hard drive

2. Insert your decompress Clarissa Program disk into any floppy drive.
3. Double click on the Clarissa2 Disk icon. Now drag and drop the
ROInstell lead over the pertition of your hard drive in which you want the
program instelled (eg Work:). Double click on the HDInstell icon that'e

hard drive To install the Player Diek onto your hard drive, [neart the Player Diek, double click its [con (which is labelled Clarissa-Demo1), then double click the Icon marked Install-SSAPlay.

To use the Clarissa program, reboot your hard drive. Clarissa can be found in its own drawer on your hard drive. Double click the Clarissa program icon to start it up.

MuttiCX Installation
To install MuttiCX onto you Workbench system, bool from your
Workbench disk or hard drive, end dies the MuttiCX leon into the
WBStertup dewer. It will now start outomatically each time you
machine from the hard drive or the Workbench floppy disk.

Super Street Fighter 2 Insert your disk and reset your Amigo. The game will not load eutomet by on A4000s: Although we tested this disk on all Amiges, some A4000 If an Adouts, Actiouge we serve the loss of an in-displaced control with the control with t this sort of thing happened.



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# News

# **The One Dies**

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termous as e single format Amiga gaines magazine. Noterious for its illevalent hitmour, organishity and its journelist's liberal isse of words like cack parts of eases to describe games, readers opinions and anything else that happened to be on their minds, The One's publication was suspended "Out or conditions in the Amiga gernes market", according to a wise old accountent in Emergh's headquarters.

However, eager as always to keep things going (and hopefully re-launch this magazine at a latar and more favourable date). CU Amigs Magazine will be incorporating The One Amigs into some of our pages from now on Matt Boughton, excliquity didtor of the illustrous?

organ has joined our staff as Gemas Consultant and will have a regular column keeping you informed of developments in the games market and spicing up our news section with inside information, as well as reviewing games and re-introducing, due to populer demand, a gemes tips section in CUI Amilya Mispatzin.

In case you wonder what hisponis to old Ampa magazen staff when their sung finely opens to be the might be the supplied to the



#### Make Way For Even More Storage Space

xcting news on the storage front this month from Fourth Level Developments. They have just announced a SCSI 2 dain. They have just announced a SCSI 2 dain. Which doubles as a quad spiece (04) CD-80M drive with Efforms access and as 660 MBo served with SC optice of one with a transfer rate more than MMos, Sunded with Ammitte-Sella (see scan MO-MOS, multi-media support system, it is due to set all at section ESSI and uses flow one of the set of the section ESSI and uses flow soot carridges. It will be

aveilable in internally mounted and external versions

Look for a for review in next months lasue. For further information, call Fourth Level on 0117-9854455

# No More Invalidated Disks

More news from the boys at Fourth Level Davelopments. They have been busy working on lots of technical things and have just released a progrem called the Ami-File-Sefe replacement file system, otherwise known as AFS.

Amb-flie-Sate replacement his system, orderwise known as AFS.
This new product represents an estounding improvament in performence over
Commodore old standard file systems, OFS and FFS.
Flie systems are responsible for hendling the way files era stored on devices
file floppy and hard disks, However, AFS is not only fasts, it's also more effi-

sient on disk space and claims to be proofed against invelidation. So we should expect great things from this new product.

AFS retails for £69.75 and is available from Fourth Level Developments. You

AFS retails for E99.75 and is available from Fourth Level Developments. To can contact tham on 0117-9854455. Expect a full raview in next month's CU Amige Magazina.

# **ZCL Gets Liquidated**

and Amide distributor ZCL who also own Indi have been put into recovership phowing significant losses. Although the company is still treding the receivers we been called in to turn stock into cash and find a potential buver for the comarty as a doing concou

one of the two biggest distributors of Amige hardwere and peripherals in the UK the other distributor, has remained in business despite the Commodore crash ZCL are a plame the Amiga for thou woes, with a large sum of money still owed by retailocked Commodore products. A spokesman for the receivers. Arthur Anderson, was

made publication Computer Retail News as says receivership would continue until "a firm gnp. stablished on the company's finances, when the

Jid be reviewed again\* and a symbol of computer stores receivership announcement was made.

#### Championship Manager 2



turrently on release it will have to be really

### IDE CD-ROM for the A1200/4000

and out if it's possible to connect a egular IDE CD-ROM to the A1200 and 4000's built in IDE interface seer is that, at the moment, it isn't possing the the built-in driver in the Amigs's However a new driver, ATAPI is under apment by German company Elaborate

called the ATAPI device

"API actually works as well as the

authors claim it will provide Amige users with a much cheaper elternative to SCSI compatible drives

The final full version will be a commercial product and will be reviewed by CU Amiga in a forthcoming issue along with hardware that allows two CD ROMs and two IDE hard drives to be simultaneously connected to the internel IDE interface. For more information call

Ground Zero Softwere, on 0117-9741462

#### **Touring Car** Manager

mont fenancs of this world, a new company celled OTM, previously better known for utilities like our last month's cover disk PowerBase, is releasing a new racing game. This is the first game based on the British Touring Car Challenge in race using limited modification of works versions of current saloon cars. The game starts off with you selecting one of the top teems like Alfe Romeo, BMW or Valvo, then

known drivers then saurpoma the team through the ups and downs end varrous weather conditions of a season. It with posters post Romeo 155, We should have a full

review next month





#### Formula For Success?

scon's formula 1 menagement game Pole d The Patnown and On The Ball, is now due for in September when Et fens will be able to revel in official F1 sponsorship has been confirmed but it



#### Mini dictator



alian race? Of controlling their armies and taking ovor a strenge planet? Of slogging it out with tho beach or a play room? Yos, Then Mindscape's Tiny Troops could bo the game for you

A bit like Cannon Fodder In the world of Micra Machines, it is a puzzle and team combat besed gamo controlled by mouse and features cutesy cartoon creatures from two races who ere locked in e pormanent battle on a virgin plenet, having almost destroyed their own. The game is due out in October on A1200 only

#### **New Directory Opus** Owners of GP



soft's excellent Directory Opus teko version 5 0 Arexx end dieg

changes and bug fixes are all part of tho new 5 11 peckage Call the UK distributors

# **Matt Broughton's Games in View**

Bonjourl What's all this then, eh? Well, if you're a regular CU Amiga Magezine raader, "Hi. Sorry to gete cresh." end if you're an old reedar of The One, "Hello my chums, are vou missina us?"

es, with the sad 'suspension of The One as an Amiga games magszine. [7] be googing up here and there throughout the pages of CU, injecting the word 'pants' and 'arse' es much as possible into the general format and helping with the gemes coverage.

One of the new features we'll be adding to CU is a dedicated games column, of which this is the first. So, want to know what's going on out there in Amiga games land? Well, follow me

Anyone who's ever managed to catch the Sky satellite programme Games World, will no doubt be familiar with that 'great guy' and all-round caleb. Dave Perry Well. thanks to the bandanna-ed one. Milliannium's Master Axe could have finally found a way onto your screens - via a Powerplay jayped bundle package Likely to retail at between £20-

25, the bundle package looks to be Millennium's lest change to recoup the £150,000 already invested in the so-far-less-than-impressive product. If the rdea makes the Iroht. of day, this will be the first ever joyped available for Amige owners (er no ectually Mat. See our review of the Techno Plus on page 79 Sadiv apart from the release of Extractors on the CD32

Millennrum don't have much on the games front, although Keith Smith informs me, "We haven't abandoned the Amiga, it's just thet m the future well be looking at projects that can be transported over to the machine rather than developed on it "

Just a ted overdue. Grendslem are now quating September as a release date for the RPG adventure

Seventh Sword of Mandor, while their compilation. Gamer Gold will also eppear around the same time. The CD32 version of Resputin's Base

Jumpers will be also be made available through the G'Slamers from the 28th of this month. pirced at £19 99 Following the comments made by pratty much every magazine reviewing X-Fighter. Thalion have

decided to pull back the release date with a view to rewriting the graphics and sound - with a couple of tweaks to the game ename while they're at it. Look out for a new yersion around ECTS time in

September The ever-busy Kompart/Black Legand

stuff at an Impressive rate, with Arcene's Turbo Trax looking as though it Il finelly get a releasé date of July 12th, and Behind the Iron Gate

following a week or so later There's no more news on Spherical Worlds but it's only six weeks away from master with Wheelepin pencilled m for a July/August release

Mindscape are uncharacterists celly active on the Amige scene. with Trny Troops due for release in October and both Space Academy and MegaRace due in the Summer Bad news from Daze Marketing I'm afraid, as they abondon their Sim City-esque world domination game, Power House Apparently, they made the decision once they realised that the game could never be anything less than 'unsettled' state of things, ien toway to hide me tree Still, there's always the forthcoming Ascon

product. Pole Position to look forward to. Smilarly scery news from Core Design is that they've yet to decide whether their graphic treat, Big Red Adventure will meke it onto the Amige At the time of

writing, the team have vet to see the pre-production version, and will make a decision then and only then Golly Fingers crossed

More frightening stones from the land of Empire Interactive where Cyberspace has now been

officially 'suspended' agein due to the 'thin ice' nature of the Amiga games scene right now (Hmm, sounds femiliar! Anyway, the Empire craw have nothing else to offer us currently, other than Bitfusion's helicopter sim, Costs but you already know all about that I'm surel And, just to keep this column

looking like death warmed up. Colonization looks to be MicroProse's last Arraga game for some while - with the future of A1200 hard drive-only Pizza Tycoon still undecided New developers Leading Edge

still have yet to find a publisher for the excellent Super Bomberman clone. Blitz Bombers, featured on the cover and cover disk of the lest issue of The One (and I do mean THE LAST - boo hoo! This looks certain to be a brt of a hit depending on which publishers gots to it first!

And that wraps it up for this month's games news, leaving me to wish you well and offer you this month's chert from HMV Au revoirt #

#### HMV CHART... Amiga top games

- Ultimate Soccer Manager Sensible World of Soccer
- Men Utd the Double Super Skidmerka
  - Beau Jolly Compliation
- Pinhell Illusions Theme Perk
  - All Terrein Recing Roadkill
- FIFA Soccer

#### PUBLISHER Dave

#### Virgin Krinelie Guildhall

#### Virgin 21st Century

#### EA Teem 17 Gulldhell





& Bacojumparu: localing no a CB32 near you soon

### Amiga Technologies UK seek new bundles for £350 + Amiga

miga Technologies
ass finally redruited a
Sitush teem to handle
sales and marksting
aga in the UK. Called
\*\*echnologies GmbH (UK) it
have six staff, all of

have six staff, all of are ex members of modora UK. The team is up by Jonathon Anderson was a product merketing in the old organisation. speely based back m.

Mandenhead rather then Escom's headquarts or their new near Stenstead, the real consist of technical supard sales safet Junathon, used to work for Stica has experience in setting up probundled software deals as seen as Awry alle for at Awaya Technologies

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\* month's news feature indicat-- Scala MM300 would be - with all new Amigas but amethon intends to add to this some top name utilities end Unlike the old days, where ■ K and Europa put together they will now be standardshroughout Europe and thet maps only two will be aveilone for machines with hard was and slanted heavily ands quality productivity softe and one for basic A1200s a games orientation. No software has been finally decided at this stage though

#### The new price

te our raport last month of Amigas for under £250 based on comments by Escom's ad Schmitt, and reports of even cheeper mechrnes in other regazines, Jonathon Anderson ed that in the UK this sort of since would be impossible. In order to get dealers to take the Ampas and to actually produce the machine again the price will have to be between £350 and \$399 for the basic A1200 pack. so did however claim that the machines would make the price sales effort would be backed up



A. Janethan Andreass, beed of Aniga Technologies 18. Solan and technical napport will be their key

This statesy must be seen as risky, with the Amige now "out of fashion", according to one soft ware publisher, and competition from the games side with the UK learner of States and Persistent Persi

Anderson remains contident though and hopes that by keaping odvertising simple, showing the software that Andings is copable of running, and how cheap that software is compared with its PC and Mac competions, rather than concentrating on the hordware will still strate; papels

"I don't mtend to spand millions of pounds dorng lads which taa ture! Issh, boomarangs and ell this sort of thing. I don't want to concentrate on the hardware, lawnt to show people what's on screen. When we adversed I will get the software publishers 'involved very heavily,'' sard Jonathon.

They expect to sell 50,000 A1200s in the period between October and Christmas and some of thesis will have hard drives. A price plot his yet to be set for hard drive equipped machines but Jorathon was very Concerned about hiking the A1200's price too high by putting drives in The amount of machines which will

have them will be determined by their price, but up to halt of the total allocation could be squipped if the market was weble. Johathon claimed, "We have 50,000 A1200s, some of which have band drives and every single one of those is pre-sold. When the (software) publisher's see the product.

physically back in the shop, there

will be an upward trend towards getting titles out there."
He expects more flexible pnoing next year for the upgraded A1200, with a better processor and more RAM, but even this depends on the success of the relaunched machines over the

Chastmas period
On the AdXOGT front the
majority of the reported 22,000
allocated for production will go
to the United States where it as
still highly mapped as a veder
and graphics machine, but the
U. will go; and before Chartman
in 4040 form with a signatura
upgrade to 506 with the full,
internal 606 version being available early near U year. The proposed RISC mechine Could be
raddy by autumn next year.

#### More games

The UK games publishing indus try is saen as very important for the Amige's future and one of Amiga Technologies' biggest tesks will be to get these publishers beck into the fold and developing "Garnes which begin davelopment now may only be completed in 12 months time, so software developers shouldn't leave it too late to start Amige software again', Jonathon steted. "My tesk is to get the publishers back on board by going along and seeing them. If I believe a trile is good enough I'll certamly put it to Arnige Technologies or Escom, the parent company, that we do some co-funding

Although currently having only six staff, Amag Technologies GmbH (UK) will grow with the Amaga's sales and recruit further people in the coming months After moment, Jonothon Anderson is looking for merchandssers to help sat up in-store displays and promotions in the rui-up to Christmas. He expects these to be regionel based and Amiga illi-

erata, in place to help ratailers maximise the ettractiveness of the machine.

And as for Commodors UK? What sort of feelings did Jonathon have after David Pleasance and Colin Proudfoot failed to submit a final bid "None of the staff other than David and Colin were aware that there wasn't going to be a bid it was put to me that they tectically withdrew, which frankly is a politicien's answer. There ere van ous reasons, and I don't honestly know the real one. There have been rumours, of which one was that they didn't have the money I know for a fect that they did have some money, but whether they had enough was enother question. Escom went out



A Petro Synchrocionha General Massages of Fauga Inches/Syncs EmbH who has appareted on ex-Commissions SM staff to the mes company

chacked out the company, saw it was worth buying and did the deed "

cel will to follow it through with a real success story, remains to be seen 

Alan Dykes

Although currently moving into naw pramises, if you when to contect Amige Tachnologies UK you can sand your laters to CU Amige Megazine and well forward them. Unfortunately we ceen to contact them by phose or your behelf so this service is restricted to letters only.

ontect them by phose or your bahalf so this service la restricted to letters only. Seed say correspondence to CU Amige Magazine, 30-32 Farringdos Lens, Loedos ECTR 3AU, clearly marked for the ettestics of Mr. J. Andersoe, Amige Tacheologies UK.

# The New Amiga

alcome, Amiga fan and usar, to your opportunity to tell Amiga Tachnologies GmbH exactly what you went for your current Amiga and the Amiga of the future. We at CU Amiga Magazine are determined that you should get the right products and honest value for money now and in the future, and the best way to do this is to mobilise your opinion. By presenting the views of you, the rasder, we hope to guida Amiga Technologies in the right direction, help them to avoid the aams mistakes as Commondore and provide you with what you want.

Three months ago thousands of you responded to our reader survey, giving us a strong indication of what you wanted from your favourite Amige magazine. Now we're asking you to fill out this much smaller, but in many ways more important questionnaire. It is, in effect, a letter to Eacon's new Amige subsidiary which will put forward your views to the right people, in the right place. With your opinions CU Amige Magazine will push hard for a productive and brighter future.

Please cut out the following form end post it to: Amige Tachnologies, c/o CU Amiga Megazine, Priory Court, 30-32 Ferringdon Lane, London EC1R 3AU.

Desi Amiga Technologies,

Dea Arriga Technologies

As a resident of CLI Arriga Network of Technologies

As resident of CLI Arriga Network of Technologies are several Arriga uses in 1994 two Let down by Commodor who
disappointed spain, in order for the Arriga to succeed you need to listen to the opinions of two and uses, those like myself with
have bought this ascellant computer in the peat and instend to stack with it, provided it continues to provide in the commentations.

temploment upon a control for the Aring to succeed you need to state to the options of the sen user, those like myself who of its past succees; vote to remose, excellent opplications, occellent agreements of the past succees; vote for ormose, occellent opplications, occellent agreements of strong to the past succees; vote for ormose, occellent opplications, occellent agreements of the past succeed, and for other past succeeding the past succe

use it for:		
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Expert Competent	3-4 years	***************************************
Complete beginner	4-6 years	
	Dung & serger	Country

REMEMBER, YOUR VOICE COUNTS!

From next month onwards we will have a member of Amiga Technologies GmbH on-line to snewer your letters and questions every month. Please send your correspondence to Amiga Technologies Q&A, CU AMiga Magazine, Priory Court, 30-92 Faringdon Lane, London ECTR 3AU.



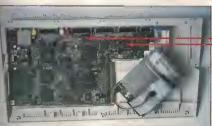
# Trouble Shooting

What do you do when a mystery complication cripples your Amiga? Sometimes it seems there's just nowhere to turn, but this month you're in luck! We've compiled a list of the most common, most awkward, and most infuriating Amiga problems, and blown them away! Never again need you be nagged by unnecessary requesters, messed up by memory loss or rattled by read errors. Welcome to the world of trouble free computing ...

o've all experienced those conflusing error messages and system creates as one prior to another. The trooble is, if you don't know what's gots wrong, there's not much you can do be put in right. Over the next five pages we've complete is message as without any bother. Exampling issue or eye you for memory problems to benediver filled in the control of the problems of the control of the control of the covered, with stacks more besides.

We begin our four of Troubletown with e look at the popular Amiges 500 and 1200 Chee, you've got an idea of the workings of the mechane, wou'll find it easier to understand why your Amige as insubshaving Throwing the Amige and of the winned weight be the most appelling option when you're at the end of your tother, but taking a minute to calm down and sort out your problem is always worth a in the end.





#### The Secret World of CIAs

CIAs or Complex Interfece Adepters em generally the number one Amige herdwere feelt. They em responsible for much of the Amige's Input/Output handling including jaystick/mouse and the parallel port. The most common cease of CIA feilure is eccidentally shorting out pins on any of these ports while the mechine is powernil ep. Thie is useelly done by plugging in printem, joysticks and the like while the machine is on. Not being perticularly robust the good news is that they ere not e rere cuetom chip and are fairly Inexpensive es fer es Amige spere parts go. If you have an A1200 (pictured below) then you're in for some bed news. Tehe e look et the Indicated chips. On the A500 (pictured above) you can ase they are large dual in-line socheted chips. On this machine you can buy the chips and replace them successful bear sure they go in the right way around!) with a minimum of stress but on the A1200 things are worse. The A1200 uses the more modern and cheaper method of surface mounting the chips. That's not normally a problem for chips that aren't prone to failure but in this case it's a bit of an oversight by the old Commodore regime. Your machine will have to go to a repair shop that knows about

#### Replacing chips

Mepefully in the normal course of using your Amiga, you shouldn't have to pell on your jumple boots and go delving into the same most sencturas too often. However, there are a few occasions when this may be required. It's handy to have some background knowledge on the base level sizzards for your want tellines.

There are only two chips that you absord ear have to replace in either the A500 or the A1200. One is the CIA (see above) and the other is the SOM(s). There is only one ROM in the A500 and two in ties A1200. Removing the original chips is fairly easy even without a proper chip-pulling tool.

Insert a flat bladed scrawdriver between the gap between the sochet and the chip. Lever it ap a frection but not the whole way. Then move to the other and and repest. Gently work the chip act of the sochet.

In both cases the chips ere of the dual in lies warfs. That means they can be inserted either way round. How do you tall which is the right way? On both the ClAs and the ROMs, there is a semicircular bit out of one and of the chip. Also on the motherboard these bites are marked on the board. You can see them to the left on the A1200's ROMs ebove. If they lies up, no problem. Inserting naw chips lies up, no problem. Inserting naw chips

is a bit more involved. Again a specialist chip inserting tool is best and isn't very expensive, though there is a way to do it with your bere hands. The duel in-line legs will initially be too wide to fit in the sockets. Place one edge of the chip legs into the sochet end insert elightly. Then push the chip towerds the edge helf inserted. This should bend the pins tem porerily towards the chip and allow you to get the other row of legs into the other eide of the socket, Be careful, Con't use too much force end make sum the legs om lined up before you depress fully to shove the chip home. However, if in doubt call in a trained repair company.

surface mount technology.

Help! My Disk Is Corrupt
Problem: The system compleine that a disk is corrupt, or them are reed/write arrom, or files keye been deleted by mieteke and must be recovered. Cause: Tkera are meny possible causes, suck as the Amiga crashing whilst writing date to a disk, inferior quality disks or faulty disk drive mechanisms. Solution: In these situations you need to use a disk salvage utility, the best known exemple of which is DiekSelv, programmed by the ex Commodore angineer Deve Heynie. Similar utilities ere eveilable from the public domain. These utilities can bandle everytking from moovery of socidentally deleted files to nursing corrupt disk structures back to health. Many can salvage files from kopsiesely corrupt volumes.

Prevention is batter then cum end the number one seuse of invalidated disks is an over aggar use of the three finger death grip. Resetting your Amige before it kee updated the disk structum (this will happen a couple of seconds after drive activity finishes) causes no and of probleme. Minimise the risk by weiting a few seconds after the last drive access. DiskSalv cen be obtained from Deltrax PD, 36 Bodelwyddan Ava, Old Colwyn, Clwyd LL29 9NP. Tel: 01492-515981 disk U437.



#### Zorro Sorrow

Problem: The Zorro III card in the A3000 or A4000 isn't working properly Cause: A Revision 11 Super Buster chip is needed for the expansion slots in these machines to work properly in Zorro III mode Earlier Buster versions must be replaced Solution: A3000s have the Buster chip plugged into a socket on the board, but those in some A4000s are 'permanently' surface

mounted. On A4000s it's the pearest large chin next to the SIMM sockets. On A3000s it's located to the right of the Zorro riser in the middle, it has Super Buster written on it and the number 390537-X, where X is the revision number Seven, nine and 11 are possible numbers and indicate the revision. If you don't have a revision 11, it can be purchased from Remips International (tel: 01690 770304), if you're not confident about replacing it yourself or your Buster surface mounted, call Fast Computer Repairs on 0171 252 3553 to get it raplaced. They do not have the chips in stock, so you will need to buy the chip yourself from Ramiga International.

#### Too Many Add-Ons Problem: The Amiga will not work at a .

when a number of peupherals are attached

#### Top Ten Ways to Reclaim Memory



- Small amounts of RAM can be won back by closing windows on the Workbeack sed eny otker somens.
- 2. Close Workbench Larger emounts of RAM can be goined by closing the Workbenck screen com-pletely. Most softwere will let you re-open the Workbenck later on.
- Hold down botk mouse buttons and resat the Amigs to access the boot options.
- Any or all drives can now be disobled. Each disobled drive will free up more memory. Users of Kickstert 1.3 Amiges must physically disconnect extra disk drives.

4. Headure the number of colours
Working screens, pictures and enimetiess with few colours use less memory than those with many colours.
Workbench colours can be reduced
with the Screenmode options of the
Perfs excito. Other programs have
similar options.

screen resolution Fewer pixels see lace memory, so switck to 'low rea non lace' for the switck to low rea non lacar for the maximum saving, NTSC mode can be used instead of PAL for extra vavings. Overscan mode (setre height end width) should also be turned off.

- 6. Close other programs
  The Amige can run a number of programs at the came time, some of grams at the came time, some of which may be run automatically duri startup. If you forget to close an unused program and open another, to original one will still use some mem ry, so close it down with the Quit option (kiding the screen will not close the program).
- 7. Bypass the startup-Hold down the CTRL and D keys Im dietely after resetting the Amigs. This will kelt the Workbeach startup-seqsence. Usem of *Kickstert 2* and

sove can use the boot options (hold down both mouse buttens during resat) and salect Boot Witk No Startup-Sequence. Now type the foling, pressing Return after each line

- You may keen to type in the 'assigns' yourself in order to run the required program. See the penal on Assigns for further details.
- 8. Detach extra peripherals Disk drivus and other peripherals use small portiose of memory in order to speed them up. Unplug any peripherals that you are not using, but only do this when the power is turned off.
- 9. Use virtual memory Some programs kees a 'virtual memo-ry' option. This uses disk space to temporarily store data that would oth empourary store date that would otherwise occupy RAM. A dedicated virtual memery system called VMom is available from PD houses. VMom requires a Mamory Menagement Unit (MMU) which is built into 95030 and 05040 processors.
- 10. Assign the T and ENV drawers to the hard drive instead of the RAM: diek. This requires some alteration of the startup-sequence, and some knowledg of how the Ausign commend works. See the panel on Assign for mers info.

PAM board hard drive, genlock etc) Couse: It's likely that the power supply A3000 can't deliver enough current to drive all of

> Solution: A larger power supply is need ed. The old A500 supply is actually a higher specification unit then the modern A1200

option that may suffice If a sanous increase in power is needed then Datel's Goliath 200W power supply will solve the problem it retails at £44 95 plus £2 PSP You can phone Datel on 01782-744707

AGA Game Compatibility

Problem: An old game works fine from "oppy but not after being installed on an A1200 hard drive.

Cause: The geme is not AGA compatible AGA Arnigas act as if they are ECS machines until the Setpetch program is run. This is

contained in the haid drive startup sequence, end so it's not run if the game is booted from

floppy disk Solution: Temporanly disable the AGA chipset Hold down both mause buttons when

you reset and select Display Options followed by Onginal, Use and Boot,

Jumbled Kevs

Problem: The keys on the keyboard don't metch up with the letter and symbols that

Cause: The keymap being used is different from the keyboard type Solution: Try the pieleiences piogram

called Input on your Workbench disk Change the country type to British or whatever is the

relevant option If you can't find the right one then look on your onginel 'Extres' disk for the correct

keymep for your keyboard. If you still cen't find one, then a call to a PD house is in order. They are installed in

Phot bod le-Click >

A If you have a Beylish beylowed but the American begins unfected, none haps was I watch typed atjust. The solution in setting the car larguage was the Watchench lagor Preferences Davs keymaps. Alternstively 1,3 users can use

the Setmep commend in the startupsequence For e British keymap, enter the line setmap gb

#### Not Executable

Problem: Files downloaded from bulletin boards and from PD disks will not run. They have letters such as LHA, DMS and ZIP on the end of their filenames.

Cause: The files are software archives They usually contain a multitude of files that make up a complete software package in the

Solution: The same utility that made the files is needed to 'extract' them. LHA files need Stefen Boberg's LhA DMS files need the DiskMasher utility, ZIP files need UnZIP, LZX files need the new LZX archiver All of these are evailable from PD houses and BBSs

if you have a modern. In the case of PD houses, they usually do a disk full of all the common archivers. A good collection is disks U696-U697 (3) from

#### Please insert volume X in any drive

Problem: A requester eppeare saying "Insert Volume X". Cause: Application programs need to load in extra files for certain functions. and they need to know where to find these files. Applications are directed to specific file directories by a system of 'eseigns'. This is most relevant when dealing with softwere instelled on a hard drive. If an application is not directed to its

accompanying files, it will sek for the user to insert a disk (or volume) on which it expects to find the files. However, on floppy-based systems, this is a common request and merely meens that it needs you to ewop disks in order load cartain files.

Solution: The 'volume' that is being requested must be easigned to a place on the hord drive. For exemple, a program called \*Appp@afc1.4 would most likely look for certain files in a place called \*Appp@afc. If it ween' seakigned properly. It would esk for volume HappyCs/c to be inserted. In this case, it would need to be told where the HappyCalc directory is on the herd drive. Assuming the herd drive was called HD1: and HappyCsIc1.4 was installed in a sub-directory called Applications, this would be solved with a line in one of the startup-sequence

scripts that would read: Assign MappyCalc: HDl: Applications/EsppyCalc

Note that the essignment refers to the HappyCalc directory, not the HeppyCalc1.4 program file. Alterations to the startup-sequence or user startup scripts only become active once the machine has re-booted. For instant effect. commends need to be typed into the Shell/CLI in addition.

Assigns can also point to several directories. This is achieved by following the Assign commend with the word 'ADD'. For exemple, the line

Resign ADD Libs: HappyCalc:Libs

will allow the libraries in this directory be opened by the system. Alternatively you could just copy the contents of this directory into the Libs: directory and not bother with the Assign et ell.





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Ground Zero Softwere, 4 Chandos Road, Redland, Bristol BS6 SPE Tel, 0117-9741462 Price: £1 00 each plus 75p P6P

#### **Parnet Troubles** Problem: The mouse and joystick don't

work properly after using Parnet Cause: Parnet is rather notorious for destroying the Amiga's 8520 Complex Interface Adapter chips (CIAs). This is not elways the problem but is very likely where Parnet is in use

Solution: Pamet isn't the only way to blow up CIAs up Shorting the parallel port pins accidentally is another way. The CIAs ere the number one failure component in Amiges The net result is that a CIA will need replacing If you have an A500, A1500, A2000 or A3000 then your CIAs ere socketed and can simply be replaced. This is quite easy to do yourself though getting a more technically minded person to do it for you would be helpful. The CIAs can be bought for £10.99 from First Computer Centre at Tel: 0113 231 9444 The bad news is that if you own an A800,

A1200 or A4000 then you will have to pay the

price for Commodore's cost cutting. These models have surface mounted CIAs and must be replaced by a repair company which is going to cost many times what it would cost if you could change them yourself. One such company is Fast Computer Repairs on 0171-

#### Startup Troubles Problem: Don't know how to modify the

Solution: The Startup-Sequence is script

A script is a list of programs that the Amige should run sequentially. This script in particular is run when your machine is first booted The startup-sequence itself should not be

modified. There is enother startup-sequence designed to be modified celled the user-startup script. To make changes to this script, you need to use a text editor. One is supplied with Workbench as stendard with your machine end it goes under the name of 'Ed" (have these guys no Imagination?) In order to use Ed, you'll need to be in the Shell/CLI and type something like

Ed S: User-Startup

Could I done poster by Personal Facel

II Challengton 164 Checkenglon 188 IS Red (Park) Loga IF Tank

A Show has in "Ed., the standard Workhoush best adder, with a User-Startup script limited into it. The script in the new system power-up. These so where nothern matters will after add Annual commands the If the script doesn't exist, a blank one will be created If it does, you will see it appear in a new Ed window. Some simple but very useful changes you can make regard the Assign commend. See the panel on 'Please insert volume x' for details. Most software installers will make changes to this script for this purpose and you should see their signatures in this book on AmigaDOS coupled with some experimentation will go a long way to turning you into an Amiga expert in this regard. At a minimum. It can't hurt to have a look now.

Ten Do's and Don'ts

Meke bach-ups of all your impor-tent software and date. Wait for dish ectivity to field bafore sjecting a disk, resating or

Tony Horgen and Met Battinson

can it?

Do ...

#### Could not open x.library

Could not open x.library
Problem. Propries complain that they cent find or open files or just said during leading with no expleration.

Causasi. Many programs including genes, require other support files to work properly. They may need throates, fonts or other essentials programs. Influence of the control of the control of the control of the programs are control of the control o

my df0:Libs/Rappy.library Libs

That's fine if you'm told which fills the program can't find. Otherwise, you'll need to get hold of a shinewarm utility called SenegioDS. This can give you a list successful or not if a program is negative to the successful or not if a program is neshing to find on the hit's yet likely that SnoopDOS will be able to track down the problem. It can also be an education in what goes on behind the scenes with your Amigs. SneopDOS is available from KT e Dt. 70 The Drive. Rochford, Essex, SS4 1DO Tol: 01702-54243, Disk U492. Piles .50p. - 73p PRP.

#### turning off the Amiga. Teke care of your floppy disks and heep tham is a covered box when not la usa. Use a virue checher regularly, or bettar still, put oas is your WBStartup folder os your

Turn your emplifier or speaker system off before you turn your Amige on or off to evoid a demeging 'spike'.

#### Don't... Put drinks near to your Amige. A splil can be very costly.

- 2 Attempt hardware rapaire with the power switched on.
- 3 Remove peripherals when the
- power is turned on (this includes mice, priatars, moaitors, samplars and anything also you might have connected).
- Put unahialded spanhers close to 4 Put usammus.
- Worry, it'fl ell be all right in the end.



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plato drswiug tools - allipse, rectangle, mer carva, polygon aud moro, automatic soft mades and auti-allasian. Magic Wand tool maded for brushes and rogions, cool drawing mdes liko smudge, colourize, disperse, and pea, painting tools that simulate traditional media such as AirBrushas, Charcoels, percelour.... ovey Crevons! Drawing styles through to other images, alpha chassels or weste mandelas, cut out brushes with any graving tool and use them for full calcur mating, variable magnification/zoom lovels

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# **How Do They Do That?** CD-ROMs

Just how do you meke a CD-ROM disc and what does the future hold for this popular medium?

D-ROM technology has exploded onto the Arniga scene Cheap CD-ROM dises from Power Computing and Overdrive have lead to an unquenchable demand for CD software and it's Increasing by

and ay But how do you get over

The Future

Even though CD-ROM has
may really alash of or or
man market media in the
last couple of yearn, it's
last acroused shnoot se long
a sudio CD. What guaranties do we have that it
mon't become obsolete
within another couple
of years?

actions as where couple of Corrective most Corrective most Corrective most Corrective most couple of the Amigu are double or most appear, which means are approximately 400% or proceedings of the Amigu are double or most of the first couple of the first couple of the first Corrective most double and quant The most double and quant the first CO translated and the first couple of the first CO translated and the first couple of the first couple o

where the territory of the control o

600Mbs of data onto a 'read only disc? All will be revealed

How it works As fer as your Amiga or CD32 is conceined a CD-ROM dove is just like any other device, such as e floppy or hard drive. The only

difference is that unlike a flappy Compare this with the GOM, per accord and 200 millions, and and 200 millions, and a second of the compare and the comp

for 1997! However, before you rush off and oppin a naw bark off and oppin a naw bark account to start aswing think carefully about what you want from a CO drive. Faster CDs will maen faster program and data leading the but you won't get any batter video or naufo pilephack speed, and the aams le trus of games that apost almations directly from the CD. This is because these types of data are

from the CD. This is because these types of date are loaded at a predetermined speed [as a predetermined speed [as to predetermined speed [as to predetermined] as the first silven of program loading or copying from CDs (a PD Illbary principle them these firster drives are definitely worth it, but if you're lottly lideoCD or music playback you're just as well off with your double and quest speed models.

or hard disk the computer can't write data Just like floppies, CD-ROM discs can be created in AmigaDOS,

MS-DOS (PC) or Apple Mac format. AGA Amigas can read MS-DOS formet floppies and CDs as standerd, end older Amigas can do the same with the help of soft-

were such as CrossDOS Date for a CD-ROM is compiled on a writesble medium, typicelly a hard drive in the case of a public domain 'shovelware' compilation, a set of directories and sub-directories are an anged on a

the data and the files needed for the CD to operate properly A gold master CD is pressed from this, which in turn is used to mass produce thousands of silver CD ROMs However, compiling something like an interactive encyclopedia is rather more tricky In this case it's best to use an authoring system, such as



The Amige has a good selection of professional multimedia authoring systems, such as Scela MedisPoint NyperBook and Interplay

Interplay is the only one of these that's specifically designed development and includes many

4. Eard about He in probatory terms with height Binousers. This CS and langlet Inchesing your complex with integrity.

features to avoid the common pitfalls of CD-ROM pioduction.

Dinosaurs and Insight Technology were created with Interplay, and eithough they've both been around for a few years now, the foolproof interfece is still unmetched by some of today s CD-ROM releases

The inital high pinding of Interplay (£995) meant that it was professionals, but it's about to spawn a couple of new improved systems at far lower pinces for short is actually billed as being more powerful than Interplay but is to go on sale for £39 96, which is quite a reduction from Interplay's original price tag? However, some of the CD-specific features will not be present, and the slant will be towards lower and multimedia presentations. Or the other hand, its big brother MME Pro will include features for CD-ROM construction as well as extra facilities for point of sale and interactive TV systems.

MME and MME Pro are due for release within the next month or so For more information on these systems, cell Optonica on

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#### AMIGANUTS DISK OF THE MONTH

GRAC v1.1 - All 1mb Amigas (64,99+50p p&p) 2 Disks (ticenceware) HD installable/manual supplies tows you ever alayed a game such as Simon the Sociator Mankey bland 2 or Beneath a Steel Sky and want to write ane just like it, any with your own ideas, argorbus, et? Well now that is possible with GRAC v1.1 and you don't event have to have any programming escellation, but if you have any experience with using AMOS, then this program wall

GRAC stands for GRaphic Adventure Creator and It is excellent. GRAC v1.1 will allow you to create the adventure,

As well as the editor, you will also receive a full grame - Lethal Formula - which is just as excellent and is

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"Very easy to use "Rated 95% Amiga User International

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Brisin. On site compling forms and information detailable from the Administrator VICTORY GOURS, CRUINGS, National Result. North Boddmiley, Southamptic, North 1905(2) 1904.

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in a

vhich

admit I was surprised about the amount of games we had in for review and preview. It just didn't seem like the

Last month I have to

summer. But here we are again and the sun has definitely been turning our little Amiga gemes pond into the seasonal desert. Although prospects remain good for the rest of the year, it's all happening in the Autumn, so hopefully September's issue should see a bit of a pick-up.

But if the softwere lecks quentity it

cartainly does not lock quality: Colonization and Sensible Golf are the stars of the show es fer as I'm concerned, and there are some top budget gemes too.



You may here noticed on the front cover that we are now incorporating The One. If you heven't then you should have noticed Mett Groughton, their ex-deputy editor's news column. As you read on you'll find that, courtesy of this little errongement, we've re-introduced a small tips section, back due to populer demend. If you went it to stick eround this time you'd better start writing in to Met with problems and solutions, hints end tips. If you reelly like it we cen increase the size of the section, so get writing now!



### **PREVIEW**

Primal Rage.....38

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# **Primal Rage**

For those who hevan't actually seen Primal Rage in the arcades it's ebout tima we gava you en idea of what tha game is ell about ...

t s ironic that Primal Rage was onginally developed by a Hollywood SFX team, Why? You see, the story bahind Phinal Rage is that a messive earthquake comes along and shekes the world to its foundations. In the process of doing monsters with gigantic, millions of years old hangovers. Not your average dinosaurs mind, these ones allegedly have a high IQ. were originally gods and have

Wire frame wonders

What you'll ese on your Amigs screens sext month wes

to creete stop-motios frames which made up the ection.

mock ups were based on these skeleton structures.

originally enimeted end created using hieged joint models

This is an exemple of one of those used. Full scale model

black belts in reptilian and ope

The irony lies in the fact that an earthquake did ectually shake Hollywood at about same time Primal Rage was being finished 1 but they weren't so claver than those special effects gurus

#### Arcade game If you've played the arcade game

you'll see just how well this speciel effects teem has done so well in fact that we spent the last two month's work in progresses

telling you haw Probe arcade glant onto three double density

disks. This was achieved by cutting down on the amount of frames per enimation, colours etc, but without losing the essential look and plevebility of

the game For those who heven't seen it in the shots we've shown

you were initially from the Mege Drive version, from which the Amige version is being sourced (the chip and besic code being the

same for both machines) and then, last month, from the Amiga version itself.

The game will have one end two player modes and the object is to collect as many human fol-



get through the seven creatures. to get into a bonus round and finally the finel. The fights take place over a variety of backgrounds which represent the termtory you are conquenng.

In two player mode the



The Prival Rope Inon at Mallyound special effects apperts poorly instating their transition. Marking and Saw Sudges light must have edded using realized to their offect.

#### Our Zoologist says ...



le as attempt to find out if this sort of lark coald really happen we eshed en 'expert' for hie opisios. Dr. Brien Ven Hogg le professor of Zoology et the City Pride in London: "It's extremely unlikely that seven large creetures would be released

from a form of cryogenic etorage in the earth's crust by an earthquahe. For a start we would have already found them with estellite ecenning, I mees they're herdly small are they?

Scientists have recovered cells which are millions of years old from a mosquito that was trapped and preserved in tree eep, end e prehietoric men hee been found in e glacier In Russie, but I really don't thinh that a 12 foot high blue apa would come bach to life, even if he is a god Anywey, what do you thinh would happen to something's brein if it were frozen in time for a couple of million years? It would hardly come back from an premeture grave fighting fit end reedy to rip the gute out of en old advareary. No, it would be a vegetable, I thinh that whoev-

er invented Prime! Rage needs to take a rest. God heows

what their twieted imaginations will come up with next."

A Technic and Misseri market a persons background globes" and whoever amasses

the most globus becomes the overall winner

#### Finish it!

At the end of each round, when one or the other creature's power bar has been depleted they become temporanty stunned and the ubiquitous special 'finishing move" comes into play. Here you will be awarded more points for better combination hits. Primal Rage is beginning to

shape up very well on the Arriga and should certainly compete with the speed of other conversions on A1200s though it will also be playable on the A500/600 It is due los selesse in September and we should have a review of it next month Will these dinosaurs beat the pents off MK's mutants? We'll have to wart and see Alan Dykes

#### Ladies and gentlemen ... those wacky, prehistoric Primal Ragers:

In the coin op all seven cherecters' moves are activated by a joystich and four buttone. According to a chap called Paul Bafton who's everybody's mete here at EMAP, is Prime! Rege, selike Streetfighter 2 sed the MK gemes, you see the buttoe comboe before you ewivel the joystich to initiate the special moves. This would explain why I was so useless at the coln-op. The Amige version will see maitiple button presess and joyetich moves, and will also recognise two button joyetiche,

Bizzard The epe with the long erms, Unesselly for the epe world he le blue, but le eo large I don't thish enyone would argue the point with him. His special moves lecieds the Ice Geyest, Cold Breath, a Mage Pusch and a Puech Ben.

Talon As orange sed black disosaer, smell, but capsble of fast mesosevree sed equipped with vicious ripping claws end a feathered heed. His moves include a Jegeler Bite, a Face Ripper sed the Breie Beeher, so he doese't get too much above about the faethers.

Chaos Better known in this office ee the curry end lager moneter. His moves include the Fart Of Fury, the Power Puhe, the Flying Butt Slem (it'e ell truel) and the Ground Shaher. Another epe-creature but emeller end feater than Blizzard.

Sauron This yellow T-Rex is saythleg but a coward. Apperently he's a music fee too with a special move celled the Primel Screem. Other moves include the Earthquehe etomp, The Crenium Crueher end the Leeping Boss Bash.

Armadon Looke like one of those tricetop ... tricedo . tricep ... er, whatever - you heaw the long once with the dieh-like spikes all the way along its back and tail: Except he stands op etreight end segages in Hornication,

Flying Spihes and Gut Googleg tectics. Vertico Snahes were not meent to be this fer off the ground, heace the name. Vertigo is a reptiliae 'cobresser' with epecial moves including the Vesom Spit, Scorpios Sting end Voodoo Spell, seing his seahe-like feege and

ecorpion tell. Diablo A smell Disosser, but feet ee lightning end with some pretty hot moves, incleding the Blow Torch,



ı left

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# Colonization

■ Price: £TBA ■ Publisher: Microprose © 81454 326532



No potatoes! What do you mean 'No potatoes'? The Irish will starve. That does it. I'm off to discover the New World and bring back e pound of Maris Pipers!

o and make a world". they said "Do it by Wednesday night, 'they said "And bring us back some chips " Colonization is a fairly simply Idea in theory but, thenkfully, much mere involved ence yeu get geing. Set seil in vour little ship, bump into a bit of land that rightfully belongs to someone else, and then cleim it as your own Ah, the American way

Of course, you're not the only one looking to adopt these new worlds, so don't be surprised to find the Spenish living in your new back garden. And of course there's only one option available in such a situation, end that's to beat them up To start with they'll leave you alone, being content to sust threaten you, so back eff, build up your military forces, and then steam in for a good kicking Hurrahl

Lika Civilization, Colonization is viewed using a top-down icon.



A Days your production is up to opend, why not make nown noise deals maken staff back to Europe Jose match out for the man.

grephics system This game, however, is more to do with the discovery and development of the period 1500-1800. This means that you can choose to either take part in the discovery of the New Worlds, or select to play over e random world - facing a totally dif-

ferent challenge every game The aims set in Colonization are a let more fecused than in Civilization, simply because you'ra concentrating on just one world

(as opposed to Alpha Centuri!) Of course to succeed at this you'll need net enly some impressiva resource management skills, but good military judgment and a strong colonial presence to back it up You have to remember that the ultimate goal here is to clarify your Independence by

A As team gene by the various Kome' preson will Rectarte Mare a the bloke yea'll lot you know



A Pick a career, any career. What II it be - pay farmer or lemberyank?

attacking your original home land, and the English forces don t exactly consist of a small dankey and a bag of peanuts if you know what I mean The hardest section of the came is probably at the beginning. where the task shead appears a bit daunting , Fortunately, once you've got the hang of

the system of supply

and demand, along eccupations for all of your celanists, things sattla down, and even taka care of themselves (to a degree) leaving you to explore your lands end meet lots of new frands or fee

#### Colin...

Initially yeu naed to use your limited supply of colonists to produce the most importent products and items, so

get to the town sciegn and make sure that you have farmers and fishermen to supply the growing settlement, while lumber acks and carpenters supply and build facilities, respectively. Once you've got that in hand you can start splitting ury trades (ie rum!)

When you come to pestiening towns and settlements, it's important to make sure that you build around naturel resources Forests fei lumber natural grop growth and mineral depesits will all help to get your calonies growing a lot quicker, not to-

them with the necessary raw materials to produce treding goods There are a number of less obvieus resources te be expleited, such as gold herses, cotten

Just keeping the colenies geing might seem enough to keep you busy, but you then have to think about competing with the other three computercontrolled nations who are busily trying to do

much the same as you. And there era also a farr old number of tribes who might take offence if yeu have a quick wee up against one

of their sacred temples When it cemes to combat, it all gets very strategy game-like in as much as you really have to study the statistics and work out what your chances of success are As well as measuring hew many units you have against how many your epponant has, you also have to account for bonus percentages. awarded due to circumstance. For instence, if you attacked the entire Tupi nation with a veteren spidier unit, you directive a fifty percent plus bonus However, if you were ettacking them ovar rough greund they'd receive a sevanty five per-

cent benus due te their knowledge Your best strategy is to be as friendly as possible with everyone until you've had the chance te trail



A Though the plus in its because referencest, to start with you'll have in monitor year prife and pup back in highly every one and thos.



A 'He I'm legadion fother, Heary Nations and I on like a greet door



o. 16. My manu's Gest. You've a prasty little those (the

up your falks to the point at which you know you can handle any trouble Running away is the best form of defence Probably

#### I say...

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in the same way that you propressed in Crelization, as your lowns grow in Colonization it's worth making sure that you have gecent defences egainst any would-be strackers. Once you feel relatively sefe from the outside world, you can start to invest in new buildings and bigger factories These will allow you to speed up the production of commodities such ae tobecco, fur coats, and cotton, giving way to wagon trecks to villeges to facilitate better trading conditions. If things get groovy you can even invest in new ships to enable bulk trading over a greater distance with increased speed You need to keep track of the

varying prices of commodities throughout Europe, es it's very emportent to set up good treding telations early in on in the game As with any colony management game the first things to concentrate on are lumber end food but once you've got a decent surplus. you can start to sell the stuff off for extre wongs. You can be as organised as you want, and once you've made friends with a particularly heavy-smoking tribe, you can even build simple road systems between towns to allow for easier and fester trade route transport

#### ...Shun

The geme is shown in a fairly crude graphical style, although key



a. Apart from heing dame ottractive the game system also has an

Out in a world of your own ....
The Aniga windows system works like a dream throughout Coronization. In fact, works so well that I'd like to take yos on a little toar around one of the mont impacteers in the antire game. Pay attention now!



heir professions, and how much food you have in stock. It also gives a percentage to show how rebellious they're feeling.

Any ships that come into port can adjust their inventory using this box.

This panel above oil of the possible commodities, along with how many of them you urrently have in store

This box shows a numb of things, inclading the goods you're carrently producing, the military units protecting the tow and any new buildings being, er ... built.

1) Trees: you'll wanns' be cutting these down if you fancy building enything during the game. 2! Fur Trader: if you want fur costs (which are jolly handy for trading) you'll need one of these fallas. You can even extend the premises into a factory for melor production fun.

fectory for mejor production fun.

3) Tobseconist: yep, fage e-plenty in this house.

N you like cance, you'll love these.

4) Weaver: if you have a decent supply of ootton, this feation will megically transform it into
eloth and textilee.

5) Blocksmith: this can actually be expanded into on entire from works, but even at its smallest size will be ubje to produce valuable tools for

size will be able to produce valuable tools for your happy folks.

§ The Carpenters: why do birds suddenly appear, every time, you are near? Just like me, they long to be, close to you. Ahh, ah, ah —

7) Town Hall: turn colonists into statesmen and you'll be awarded a Liberty Bell. The more belle you have, the quicker you'll attain independence

moments in the game (such as major discoveries or meetings with new end important natives) are illustrated with sepia toned stills This weak presentation isn't really

you've pleyed the game for more than fifteen minutes, chences are you'll probably be more worried about how your little colonists are coping with crop rotation than their sprite scale The Amiga's window system is utilised extremely well, and

the sound is superb.

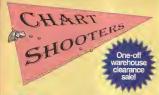
featuring tons of perky tunes and authentic tracks. The feeding time is also acceptably short and it's certainly not something that's a blo enough problem to make me warn you away from the product

As the years roll by, you are offered the chance to invite certain key figures, or Founding Fathers as they're known, to join your colony Depending on these Fathers' specialities, their presence will effect the way in which your world runs. Enirst the help of e great fermer and you can expect your crops to multiply like bonkers while great explorers will increase the output of your fur trappers by 100 percent Gosh, Colonization is e relatively

original slant on the god simgenre and well worth purchasing, in my opinion Matt Broughton

#### COLONIZATION ETBA







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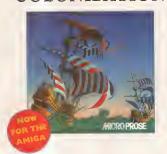






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# Sensible

#### ■ Price: £29.99 ■ Publisher; Virgin © 0181 960 2255

Sensible heve been on per with football and war games in the past, but will this swing et the golfing genre give them a slice of the ection or will it be banned from the club?



easing reality provided by 3D graphics, helicopter flights over the hole (yeah, my mum hires one every Sunday for a quick round of the the local golf club, though the neighbours have been complaining about the noise recently) and advice from digitised pros with linny voices. They've re-invented



4 72 house players om puricipate in a Germanust

it as, shock, horror is computer geme. The spotes are odd looking and totally out of proportion, the fairways are quite frankly, ndiculous and it's joystick controlled

But the good news is that it all holds together Sensi Golf is a very playable and enjoyable gama with Cannon Fodder-like characanism, 13 clubs and a little map reached by flicking the joystick, swearing a lot. This map appears in the upper right hend corner of the screen and can be reached. thaoretically, at any point on the fairway Needless to say when you get to the green the map is

The reason for my reference to swearing is that the map is sometimes a bit reluctant to appear This has probably more to do with tha joystick and joypad I was

using, both of which were well worn, then the game, but this does illustrate the its on joystick only Turbo or autofire modes will need to be switched

off too, they make it unplayable However if you have a Inend who's new to the idea you can seriously damage their geme by subliminally sabotaging the joystick's auto fire button every time



And you can hand over that joystick up to 72 times if you like. That's right, 72 human players can play Sensible Golf in groups of four they can all go out and play as part of a season or tournament and golf for days, weeks. months even By saying ell the player stats and results this could technically go on for ever If you have that meny Irrends.

For vanety's sake you can also

A flat of bounds! Again! The scaling of the graphics undex very it difficult to Judge it about from between or busing trees. Francisco.

trousers and shirt colour of each character but, lo and behold, feminists gat out your cardboard placards, there are no wimmin. This is bletantly sexist and as far as I m concerned a bit of a humour oversight for Sensi too Imagina tha chuckles that could be raised by cross-dressing golf characters in woman's clothes and the option would have pleased the Scots too with an option to kilt up wi' a tartan skirt.

#### Got the power

Where would a gotf game be without some method of hitting the bell? Stupid question Sensi have opted for a speedometerstyle round dial to control a shot.

### change the hair colour, skin tone,

Flexing those green fingers ...

Shooting the ball short of the hole in bad saws. The most difficult part of Sensi is not really gatting the ball there, it's sleking mouse operated power bars of other golf gemes Sensi Golf's joyetick con-trolled little speedo lecke ensitivity, so short shots can causa more problems rire, so to speak. The arrows on the green ying to plan a long disance shot which goes up and down on several different places.



A Dres tires and with a little help from those fewers fring hips places his first shot clock on the fairway

#### Out of bounds

Like Cennon Fodder, Sensible Golf is all about heving the confidence to take riske. Finding the right route to a hole is the key to







sim directly, take a decent awing and try to get it unto the nearest island to the hole. Otherwise you can take it step by step with more measured shots. The latter approach means that you are less likely to end up in a seand or water traps trying to chip the ball or having to drop a skot, but it does mean that you're untikely to maximise your score.

feirly precise gauging on the power bers and diels of more conventional golf games this is a bit too carroonish but it does fit the game s Cannon Fodder-like graphios stylo perfectly

Taking a shot with a particular club is affected by the type of terrain you are shooting from If it's on the falloway the shot area at the bottom of the power dial (red gives you a safe shot, vallow will give you some curve or sliging on the ball) is feirly wide, If you are shooting from rough, semi-rough or a bunker this 'safa' zone is Invaded with black on each sido If you press tha liia button in the black area you will simply clip the bell and drop a shot.

The club you use also effects as the first form of the country, for instence to use a three rion in the rough these bleck areas are massive and the chances of you firting a direct, decent shot are very, vary slim. If you use a pitching wedge the black zones are very small and your chances are increased.

Because of the way the various courses are set up some of which have messive bunkers or water tight and the vaguaness of the power dial, choosing the right club for the job in hand

When you start a new hole the





A You can reduct the notoer of each player's hair shirt, 9000005 and place town

defeult setting has you gleyer arming directly at it, but this is very raisely the bast way to shoot. The first thing to do is call up the map (swearing) end plan is route. You can choose to be adventuous, islying on lightning fast first button isactions and power deli judgoment and the biogast club available or jot to be safe and conservative using the maximum distance for sach club as a guide.

to where your ball will land

#### Tournament

In the end though it's all about getting there under per against your opponents. There are four levels of computer appoint, easy, madum, hald and wicked Easy olayors are strictly.

amateurs, missing obvious shots. Wicked players rarely miss a turn But the best part of Sensi Golf has to be playing it with some friends. You can play a round with up to four people, e combination of humans or computer play-

as using stokoplay, matchplay and betting on skins. You can all antar a season's worth of play or a tourinamant against the remaining amount of human or computer players (there is a maximum of 72, and you can have any combination of humans and computers) and reconvisited and computers and reconvisited and computers and reconvisited and computers and reconvisited.

ing updates after each round.

It's such a simple game, but at the same time so all encompassing. Purists will probably disnegard is as being too unrealistic but Sensible Golf is great fun to play.

The graphics may be more arcade like by comparison to PGA and some of the holes are pretty screwy, but with 25 courses to choose from, ultia-simple joyatick operated control and the





Thata ete somo problems though. Allied to the leck of proper calibration I mentioned earlier, the power diel is a bit top slow rasponding to fire button piessure. This makes accurately gauging a shot difficult. Also, the tree obstacles that are liberally dotted around most courses are blasted swikward to avoid If you land in a clump of treas there is often no clear Indication of the best route out Trial and eiror often leads to several wasted shots bafora your ascape the clutches of the droaded shubbary

The sound affects and musc are up to Sans's usual strandard though, the verbal exclamations and the text that pop up regularly as fun, but can be enroying sometimes. They can be switched off, which I bad to do in the office offset frayed tempers spoilt my south cound of the day, but if you re playing orthes than speciating they add immensely to the game.

Sensable Golf has very few flews in a world of spellstates with a world of spellstates with a first har but may be to pleas from pursts and golf anobs its biggest eleminage at the type of charge the sense of the spellstate of computer to compute game with no simulation principles and incompanies and in a substitute for PGA Euro box. For its properties of the spellstate of the spellstate

Alen Dykes



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# Player Manager 2

■ Price: £19.99 ■ Publisher: Anco. @ Tel: 01322 292 513

Football manegement games are like washing powder. There's elways e new one on the merket but it's never that much different from the rest ... will Anco's new formule break the mould?





bet according to have ment and how poud to m at doing her sub finding a play can take perdoma from can acash to a low months

e took our copy of Player Manager 2 around to several local housewives to test it out. A week later the results proved that it did indeed get their teams higher up the league than any other known brand of football management sim. However, this could have something to do with the fact that you start off in divi-

#### sion two, unlike most games of this lik where it's just an option In the running

Manager 2 is similar to On the Ball, which, if you're not familiar with is basically more accessible and arcade orientated than the likes of Domark's Championship Manager senes or Gremlin's Premier Manager titles It's closest to Audiogenic's Super League Managar though, as you can actually play games via the included Kick Off 3 game angine as well as manage tham As a newly appointed menager

and still international player of a second division team the aim is to create a team capable of winning promotion to the Premier League as well as challenging for



A There are a postlor of assumption estimated what playing in the lawer inagene it's best to take natropic good payments rethin than only on dix add bonel receive that the good cap run nytice offers



places mure amphases an restricted transag wit an town training Bull our can probably mucas.



A latituder, I make 'I gatesting for any of that becomes and put these as deary training instead fibrit makes you live after all and I haup a first grap as the austoi



European honours Thara's a neat twist in that as well as more general opposition you are directly pleying against three other managers who can be either computer or human controlled Expect these guys to give you grief in the papers at every opportunity You can also call upon Alan Hanson for advice but whenever I played his

comments were about as relieble as someone desperate to sell you some life insurence.

#### Part of a team It's odd that you're a player who's

only 28, still an international and yet a manager, I could understand if you'd suffered an injury but this isn't the case and every so often you have to depart with the rest

of the international squed. This leaves your team in the thick of it. as to begin with you're by far the best player in your squad

Cammencing in the second division rather than the third with the real dregs is a good idea. At gest the team you begin with are semi decent. Teams from all four divisions are present but it's a poor show only having 16 teams from each. Anco have presumable done this to increase competition and, because of the way the game engine, money and promotions work this no doubt makes sense, but it does detract from the overall reality of the game as Premier League teams are forced to teke place in the lower rounds of both the League and FA Cups

#### Great tactics Options wise all the regular footy

sam features are present, from deeling with sponsors to creating new tactics and carrying out detailed training programs Deeling with players forms the game's crux of but there are limitations put on these aspects. For instence, you can only renew one contract or buy one player per week and there's no option to give a player a free transfer someone has to buy him no matter how piffling the amount offered Neither is it possible to say, buy a pleyer for money as well as conducting a player swap. These espects are imitating

Each section of the game from the board room to the menager's office is represented with artwork featuring e number of hotspot options scettered around the room. The actual layout of these screens is somewhat poor at



A. Group unch player a decent team talk with regards to taction one give there a considerable boost, Den't bolice to listen to Alan Barason's advice though Powersty, my goin gives not busine pourts at whoden tand



▲ This is subset yet." I find detailed lets on your negate, reengalerin contracts, put players on the transfer matent and \$5; 13c.

times though For instance, when bedding for players there's no indication of how much money you have to spend it is a case of eather remembeling how much you have on leaving the transfer screen and going into the accounts. Herdy user friendly. The tacicis editor is nothing short of amazing a yest improve-

The stances action is nothing short of amazing a vest improvement over the likes of Sensible World of Societ and Manchester United — The Double, Not only can bothos be creeted from scatch it's also possible to move players anywhere on the pitch, and by that I mean pixel by pixel is their them.

#### it is worthy Player Manager 2 has great

depth and lestability and the is reflected in the fect that if you take the time out to develop gifted youth players they will blossom and take on major monetery value. Equally they will fell to pieces if left to not in the reserves lie the majority of footy sims if a young player starts off cash te tends to remain that way

Ance have produced a second game worthy of the name Player Manager Realism, lastability and payability were the hallmarks of the oliginal and PM2 has upped these stakes if you are as interested in creating and implement ing tactos like a real player managers, is you are in the

mountains of statistics which dominate other menagement gemes then this is the one for you. It also doesn't suffer from those odd German translations which confused On the Ball.

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# Timekeepers

■ Price: £12.99 ■ Publisher: Vulcan @ 01705 670269

It's Time Cops, converted to the Amiga before any other format! (Er. no it isn't actually, it's a non-budget budget game from Vulcan.)

nly £12 99? Surely this game should be in the budget section? Nage folks, this little belter is part of e new senes of direct med gemes from Vulcan Software, end they went to great pains to get us to stress to you that this is not a BUDGET pame. It's a low cost full pnce game apparently

Anywey, regerdless of the price, Timekeegers is all about a bunch of tiny cops who have a desperate mission. They are e carefully chosen futuristic police force who've been sent to protect the 4th dimension from a chap called

Wilhelm, a psychotic warlord trying to destroy Earth, In his bid to muck up the plenet he's hidden four nuclear devices ecross four different lands. Hieronymus Land in 2 million BC, Medievel Land in the year 1245, Vietnam lend in 1966 and Space Land at the turn of the century It's up to you and your band of memy bobbies to work your way through each land end get to the nuclear devices before our gorgeous globe goes boom

#### Lie of the land Anyone familiar with Wilcar's

Valhalla senes will feel at home

with TimeKeepers It has the top down perspective look and feel of the Valhalla senes, Like Valhalla, it. is a puzzle gerne but the symlenty ends there In 7K the puzzle element is not of the 'find the chicken. leg, cock it end then hand it over to the hungry soldier to receive a key type, the pece is a lot faster

At the beginning you are faced with 14 little men running frantically to end fro at the bottom of the screen. Your object is to move them to the top of the level, which is roughly five screene up to defuse the bomb. To do this you need to scroll through the screens to check out the lie of the lend and plan shead where you need to get to end the best way to get there.

#### Control freak

tom of the screen which contains commands These must be pleced in front of the soldiers to get them. to go in a specific direction, operete something, jump or fight. Use the mouse to select the icon you want and click to place it on a tile. where it will remain until replaced or blanked

Starting off each level at the bottom and scrolling up through to the end of the the screen you'll be able to spot exactly where the flashing orange circle is that you need to get to. But before you can send your men on a homeward bound journey, you've go to do some homework

Each level and world has its own seemingly unsurrountable obstacles to contend with, It's not easy, you've got 14 men and all you can see in their path ere ponds of molten lava, broken bridges, engry looking creatures, closed off passapeways end plenty of strange looking levers and boulders. The



A Buly non man left and I'm get to face came beddoor and a herical besign. Pikent

Where to get Timekeepers Timeheepers is part of a new collection of direct order less collection of direct order less cost genes from Vulcan.
Called the mell order miniseries they hope to release a new game avery faw months on the Islan! If you went one of these titles you can contact Vulcan Software at 72.
Queens Rood, Bucklond,
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best way to find out the easiest route to the transporter is to send one men on ehead to open up passageways and fix bridges, thus meking the way clear for ell the other chappies

Normally, this involves pressing a lever or two But be careful. gress the wrong lever end your unfortunete cop could get swooped up by a rather nesty eagle, for example, who carries him off to ablivion. Sometimes, though, these eagles come in handy as they can carry you over to otherwise inaccessible areas

The sound is quite good, though the sergent major barking orders and vangus screaming bad guys can ahatter your nerves. A handy save game feature and the option to go back to the point where you had the most men elive elso prevents hair pulling frustretion

TimeKeepers is an engaging guzzle game that should keep you engrossed for a while. At this price it's worth a look Lisa Collina

workin uch version

manage of diales ..

#### TIMEREEPERS



It goes something like this ...

This is a completed level le made up of about 5 acreens The path to the 12: Loadisava

flashing orange circle is mapped out using directional errows to make sure that the cope don't un into any leve end dis-The shoe icon makes sure they leep over my obstacles like walls or rivers of tave. Before this path could be eat up I had to send one bobby shead to open up ell the passageways (usually done by operating levers). Once you've set the path up you can than get all the men to follow

it straight to the and. In leter levels h gets a bit tricker end you might have to quickly channe directions to get eround

#### Commands 1: Undo a command

- 2: Go up 3: Go down 4: Go left
- 5: Go right
- 5: Wait a little while 8: Operete on en item
- 8: Attach any foss 10: Freeze game 11: Go to serlier levels

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an evil wizard. So you scrollad. fighting baddias visiting shops Your gang and help in your

#### Onward bound Then came Ishar 2 which saw you

avantually killing him and destroyling to each one in order as you problems. But Ishar 2 wasn't more

of just the same; as well as a new map fasture and play Now, rather then up team members as you to be vary careful about who you chose to be on your crew An excellent







sion in the ranks and in some cases morale might get so bad that him That s Care in tha



caming reader

Lisa Collins

#### Go back in time

But hold on a second, didn't /shar Shandar? True but the cunning spallstar managed to reincarnate himself into the body of the last 3 you've got to stop Shandar from taking ovar this dragon complete

ly The control panel remained much the same as Isher 2 but this meant rather than having to travel 2 you could now travel back and

forth between the islands So, there you have it, Three mammoth RPGs - each ona biggar and batter than the last - all rollad into one neet packaga at a knockdown price for you, the dis







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it's es simple as that



Then Cannon Fodder ceme along and put a torch to these delusions. With control of up to five soldiers, who can be moved and targeted as a group or as several different squeds, the availability of just three weapons and a simple and very intuitive mouse control

procedure it goes down as one of the classic pames of all time The settings are varied, with jungle, desert end snow cropping up spice things up too. All you have to do is use the cuisor to point your troops in the not direction left click on the spot you want them to leach then right click to shoot in a given direction. Once you have right-clicked the cursor changes to a red target finder and if you have grenades or bazooks missiles then you can throw or fire them by aiming with this and (with your right finger still pressing the mouse

button) clicking on the left button Although your guns have unlimited ammunition, you need to pick up the bazooka missiles and grenades by captuning crates which can usually be found right boside enemy installations. You need these heavier weapons to actually blow up enemy buildings but and if you're over zealous with your fire power and inadvertently blow up the crates containing these weapons you may not be able to finish a mission

The enemy soldiers are generally not too smart and are pretty slow to fire at you with their machine ours, but some are also equipped grenades and bazookas and these blighters are generally e

tad more accurate and dangerous

Each mission is divided up into between two and five phases and the scenery values after every couple of missions. In between each mission you get a list of the heroes that were killed in your last recruits you have left, who they are and how long they have lasted (a long serving recruit gets rank badges). This screen also allows you to save and load games

The troops are a bit difficult to see on some backgrounds most notably some of the jungle screens, but this is about the only criticism I have By Cannon



Fodder 2 standards this game is relatively easy, but for newcom is just right. Likewise effects are superb this game go and do so now III

#### On The Ball World Cup Edition Publisher:Daze Price:£16.99

Originally called Anstoss World Cup in its native Germany (don't ask us what Anstoss means), On The Ball World Cup Edition caused last year receiving a Superstar award and the accolade of the 'best management

game Tony Dillon had ever played A year on it still

stands up to the test of time, although 94% for a management game seems a bit excessive, seen in the light of World Cup fever and the superb and innovative water colour graphics used

throughout the game, it's probably understandable

On The Ball introduced a whole new level of player interaction into management games. With much more emphasis on playar personalities, sponsorship deals and the like, as well as the usual playing attributes The players are rated on thair level of commakes putting together a well beleaced team very important

You must go through the qualifying rounds, quarter finals and semis to get into the final and playing games is spiced up by

developed

complicated game with lots to do but the presentation is top notch and although the odd mistians/ation from German confuses things OTB is probably still the most ment sim available =





#### Flashback

ublisher:Kixx Price:£16.99



of Flashback is not that simple 5t in the year 2124 has greated a



stound that the good people of might be discovered kidnap him and dump him on an alien planet through this beautifully animated graphic adventure trying to piece he should be going. At first glence it looks like a straightforward platform game as you clamber onto branches end verious rockeries makthrough the game the puzzle element comes into play. You've got to going there. This is all achieved by looking at, using and storing in

mode for envone new to adventure gaming



ıgs

cutdown price Buy

#### **Syndicate** Publisher:Hit Squad

Price:£14.99

Two fevourite games in one month is almost too much to hendle. Hours were wasted (enrovably) reacclimatising to the point and click shoot 'am up interface of both Cannon Fooder and Builfrog's Syndicate, other work was swept

aside and Lise half killed me. It was worth it though Syndicate is as much a strategy game as a shoot 'em up, it's all about a future world where people's lives are controlled by various international syndicates, large corporations involved in crime, big business and secret service activities. You play a Syndicate initiate



trying to make your merk by commanding units against othai countries, trying to impress the powers that be by beating egents from other Syndicates for control of the world. You start off by being



usually search and destroy, kidnap, assassination or similar duties which you out peved for if you succeed. The money you earn should be e-invested into researching new weapons which will be of immense value as the missions get mora difficult You cen elso upgrede your

agent's bodies with aimour or mechanical prostheses to make fester and less vulnerable

You control a squed of four agents, who look like Spy Vs Spy characters and are equipped with, well, any weapon you have developed The best fun is the finme thrower There's nothing better than some sudistic population control with said patroleum sprayer. Once you burn someone with it they run off, scienming and covered in flames until they finelly collegee in eshes. Vicious it may be but it sure livens up

the day and gets up of nervous tension better than Asorin The points interface is similar to Cannon Fodder's in that you use the standard cursor to direct your agents, but when you place it over a potential target it changes to a target icon. If the target is out of renge this is yellow, if it's in range it turns to red. This renge will vary depending on the weapon, and each weapon also has a limited amount of ammunition. You move by left-clicking and file

absolutely superb. I know some people who think that it falls between these two genies without making the best of either too little death for

strategy, too little excitement for shoot em up, but I love it And I've played it well into the wee hours It gets difficult further into the geme but raw recruits should get the hang of it quickly.







#### MATT THE MEDI

Hello my little CU chuma. Matt Broughton from The One here, with what I hope will be a wellreceived addition to you usual tips and adutions. Snip Tips aims to provide you with those tiny-yattasty codes and cheats for games old and new. Evan better. If you send in a tip that gata printed, you'll receiva a fraa place of software courtesy of our mataa at Ocaan's Hit Squad label, Yes, I know – incredible isn't it!

#### Riester

Core Design Meny thanks to Mr John Barry from Swansea, who wins himself a lump of Hit Squad softwere thanks to this damn tasty tip. By pausma the game and typing MALICE OF THE MYRKOIDS YOU one than press the Up' cursor key to replenish your anargy, as well as hrt the top row numbers 1-9 end keys Q-Y to skip levals. You cen visit the shop at any point by pressma the 'Del' button although you il still have to collect cash as per normal. Jolly handy though, non?

#### Skeleton Krew

Core Design
Edward Corr Jor has writtan in
with an excellent allametive to
pleng this average game By typing in I WOULD RATHER BE
WATCHING FOREST over the
character salection screan (in captials with spaces), you can use of fetcher Full Stop steps lewels.
Enter on the numeric sayped
words nine sortic leves and typing
weeks and typing
with the same step of the same step of the
words of the same of the same step of the
words nine sortic leves. and typing

# **Snip Tips**



A He reveal how to get an auton Die in Skalutus Noow

m COLLECT MONEY owerds 9999 points (i.e. on extra life). Er, hurrahl Or something

# Premier Manager 3 Gremlin Interective Before Gramfin abandoned the

Amigs, I seem to remember them releasing a 'fair old few' of these footy games. Of course, what with there being a similer number of chaating gits out there in tha world, it comes as no surprise to find that a short-cut has been found, allowing the overege fallow to amass tons of folding brown stuff without reully earning it So . load the game and pick Halifax Town as plever one s team, while plever two takes Gateshead When you come to the main screen, go to the squad selectron screen and find your worst three players. Put these chaps at the bottom of your reserves and exit the page. Now press the space ber end change to the manager of Gateshead.



A Find out have to get lets of deah for wething to Presence Manager 3.

Use the telephone to find the page with the conference teams on, and select to view Halidax Town's team. Now try and buy one of the three players from the bottom of the best players (2,959,939 for the club fee, with a sensible offer for player fee, wage and contect If you get yes, yes, yes and (might I venture).

yas, shout "hurah!" because that's tan million quid towards Halifax's plight. Repeat this with the other two crap playars and then resign as manager of Cateshead. You'll now be the proud owner of Halifax Town, with 30 million pounds to squander at wall, And many thanks to Jonethan Baker for that little love.

#### UFO: Enemy Unknown MicroProse

An excellent trp has found its way into my lipa -this time from a Bruirmy by the name of Jonathan Homer (Doil) It makes use of the 'Sell/Sack' items screen, where by allocating production to equipment that doesn't need stock of special items (e.g. with the lisar wespons that just need cesh) you can sell excess goer for a tidy prinfit.

Providing you keep shooting down UFOs and have plenty of angmeers, you can use such tactics as shown below to build up a handy stesh of extre cash (nice alliteration I thought). Anyway



It's a good idea to use the first bits of extra cash to bring in more



anginears, thus accelerating the rate at which your spere dosh appears. Using this method, you can go as far as having entire bases butt and dedicated to producing axtre funds. Oute brilliant Cheers Jonathan, the Hit Suad

## folks have your details. Sim City 2000 Maxis

A ragular from the heady days of The One's Shipping The Tippings', Alex Simms has an extramely heredy cheet for the 'Thanceally challenged' emong you. Go to this New Scene' and click on the Herd option. Now go to the newspaper and click off it, peuse this gene and then click on Budget, Bond and Repsy Bond. When seked if you went te.

to Issue Bond end click on OK 59 typing FLNDS five times, text will now appear, and once egen, say YES to the question. Go to Budget, Rapay Bond, and click on OK Go to Issue Bond and a funny character will appear in the parcent column, Click on OK and you'll be awarded 500,000 per year, avary year, for ever and event Supplis.

replay a bond, click YES. Now go

That's all folks Don't worry though there'll be much more

Don't worry though there'll be much more next menth. In the meantime, get those tips rolling in, marked for SNIP TIPS at the usual CU address. Byees?



Worried that you are becoming a night person? Do you find

yourself wrestling with adventures deep into the early hours when all right-minded souls are fast asleep? Fear

not our very own Mistress of the Night shares your obsession and if you ask her nicely, she might come round one night to put an end to all of your troubles.

#### Maniac Mansion

you

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ued

W QQ

K By

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say

everl

KS

cu

A month ago I bought the Lucas Arts Classic Advanture collection which I zeelly enjoy but I been having problems with Maniac Mansion. How do I get the key from the chendelier, and the key from the alien woman's room? Craig Dutton, Clwyd.

The idea behind the choudeher problem is to moke a high plathed unite that will shatter the crystal and release the ker. To get the noise level you need you must go to the manie room and record the annue of the record onto a casserte. Now take the causest to the room with the chandeler and play it there. I'll be he had not to the room with order you to work out the boring mechanic of it off as I have enough routhe turning an unw Annug.

#### Monkey Island

On Mankey Island I have defeated the swordmaster and stolen the idol but I cent find the treater.

# Adventure Helpline

sure snywhere. I've got 164 preces of eight, minutes, a rubber chicken, breath mints, sword, shovel, staple remover, stewed mest, 100% cotton T-shirt, a yellow patel and a map which looks

Dean McGill, Shipley.

Well there are quite a few things still to be done. I ae a start the dance steps as you east them will lead you to the spot where the treasare is barred. From the main may ga to the fark in the path then look at the treasuce mop. Follow the direction (e.g. back is towards the back of the serven) and you will find the grove with an X on the ground. Use the thoret (which is found on the notice board beside the bridge and you'll be able to dig up the tress sure. The next elever trick is to put the yellow flawers into the stew. The result will be a Mickey Fin meal which would put an elephant to sleep. Non don't you know some asce little daggies that deserve a stew dinaer?

#### Lure of the Temptress

Good dey Vamp please could you help me with Lue of the Temptress. I have spoken with the diagon and I have sked all of the people of the village to help me to get into the castle but no-one can help me David, Maschester.

I'm not surprised that you are stuck

at this point, because it is a rather difficult hir. The treek is to wait until a Skorf culters the vislage then peek through the wadow to see what is gaing on unsule. Once you seen and heard what pause between the shopkeeper and the Skarl you can enter the shop and talk to fiwan to discover how to get inside the eastle

#### Goblins 2 I am hopplessly stuck on the

throne room level I have made

Amonia and his pet drink the elixir, but I am still struggling to get the one who loves meethells I have the items needed to make them spicy

Seen Telboys, Great Bookham.

The problem with the Gobiln games is that many of the problems can only be solved if you get the timing right to the spht second. (Not much good to a girl who likes to take her time!)

What you must do is netivate the swordfish with Fingus and take the sult. Get Fingus to lift the hig pot eaver and white he's doing that Whikle eun pour salt on top of the little man inside. Naw you can get the Rile from Inside the pot.

the pie from issue the pair.

Fingus must now hold the rope
an the right while Winkte grabs the
left ane. He can now swing down,
pick up Fingus and place thin on
the top-right shelf.

Use the file on the chain and Cohheuts will fly off. Naw you can get the thumh tack.

### Police Quest 2 On Police Quest 2 I ve got the new and old mupshots of Jessie

new and old mugshots of Jessie Bains. I've talked to Sheimen and found out about Pate and his cer What do I do now? Leonard, Radhill.

Once you have asked the prisoner about the exempe and about the knife there's not a lot left for you to do at the jail, so pick up your gun and get back in the car. If you now use the radio you'll be tuld to strive to the Mall Dance you arrive at the Mall you must.

Listen to House, Walk to the

Listen to Homes, watk to the blue car. Look at the early plates. Open the car door Duxt the glove bax and lift the finger print. Open the glove box and get the bullets and habite. Ga back to Haines and his ten to hun. Now you can interview the lady

and ask about the ear. Return to your coe and ase the radio acce again.

#### Universe

I am completely stuck in Universe. I am Illying with my car in spece, round the planets JOR-SLEV 4, LOKSASS 3 and the PEALL FINOR.

The problem is that I cannot go to other planets because I don't have enough fuel. I've streedy collected the Droid + canister Must I give something to Snorglat?

Grandgeigeece Laurent, Balgium.

Once you've picked up the droid and the canister Balkomon? you can use them to sort uut the aliens. Get back In yanr ear and head fur Jur-slev 4. Land in the top-left quadrant of the planet

Grah a handy rock and chuck it at the alien wha is there. Use the drold on the bloh and then climb back in the cur. Select the bottom-right quadrant and when you arrive you'll flod an ald man. Give the old mun the blobs and he'll give you

Go back to the car ance mare and take off from the placet. Head back tawards the Pfallenap asteroids and when you arrive offee Snorglat the medicinal herbs.

Got a problem with na adventure game? Vampy ra lues the answer Get your connadram noth paper and send it in to Dear Vampyra, Cl. Andiga Magazine, 30-32 barringdon Lond London Ed HR SAC



never eat at a place called Moms

# Valhalla **Before the War**

Dishing out poisoned ale is just one of the things you get up to in part two of our complete solution.



elcome to level two of Valhalla Before the geme and you'll be in level three before you know it. Let's begin Prck up the tankerd, operate the floor tile undernesth end take the chest key Travel south, pick up a second tankard, then head into the room on your first left where you'll diers. Take the third tankard, oper ate the floor tile underneath and and his three buddres with ale

south again, pull the lever and enter the room where the ale is Teke the tenkard off the stool and fill ell four tankards with the soldiers favourite brew Before you leave, open the chest with your with the cryptic phrase on it and operate the floor tile to get a door 8 door as 8 reward for your efforts. Look at the most talkative soldier who will demand that you bring them food

Travel out of the room and take a stick and two chroken legs



A. Fill up the four tankards and bring those to the



A. Pick up then bit all pairs a and put it note the boor to get red of the peaky soldiers none end for all. Make sore though that you drink the protection patter from otherwise you do very quickly

soldrars then travel back to the ale room where it would be a good rdea to leave the tankards. In the ele room you can oull a lever to the short cut of a room where a soldier is sat in between two chests. He asks you for the password. Insert the stick in the hole in the wall and then pull the lever.

making sure to operate all the floor tiles. Teke the sapphires for use later on The white pettern on the floor tile is a teleport square, stand on this to be transported to enotier section of the map where you come ecrosa more floor tiles, oper ate these and take the chicken legs, you only need two more as you have elreedy given two to the soldiers. Check out the room where the Norse Warlords are and

Give the two remaining chicken

you with a second chest key. Look at the soldier on the far left, once ale. The key for the chest is in the . Norse Warrior room so take the to the solder who demends the

password, face him to piece of paper, the letters change into the words 'Hermens Travel up to the locked door near

take the bone off the stool. Trevel south once more to where the green river of poison breaks Notice a small piece of poison lying on the floor, you lose stamina

Deliver the poisonous ele which they dispose of in one gulp, they are now quietaned for ever This action results in the locked door out of this room opening. Travel up. the pessageway then take a left onto the teleport square. You find yourself in a room with a senes of altars with blue diamonds. engraved on them. Drop the sapphires that you are carrying which will no you of three of the alters and will also allow you to pick up a

#### Time travel

Teleport back the way you came end walk straight onto the second teleport square. Pick up the piece. of paper with the word 'No on it from the alter than travel down into the torture chamber. One of he allows you to take it. You now



have all four objects you need to give to the Norse Warlards Before you leave search till you find the altar with a combination written or it, take the piece of paper that says chess prece which you will know peeked in to the chess board room neer to the torture chamber

#### Checkmate

end positron your Rook and your Brishop to checkmate the King The Rook goes on the square near thedoor on the line of tiles as the King chess prece The Brishop chess piece goes on the square near to the bottom of the screen with the King chess prece on e diagonal line but not on the dreponal lines of the other Brshops. When your two pieces have been positioned, the Kmg disappears to give you access to a ciger another sapphire and a teleport squere. This transports you to a room where you find a Bee tray and the front name of a newspaper Return to the room drop your new sapphire, this allows you to take a piece of paper with the words 'let him have it'

Back in the torture chambor vocan now order the awake soldrer to 'let him have it', this results in dies and the soldier accuses you of killing him, he then mforms you

that he is going to tell Take the of sapphile oltars

#### Staying power You will have noticed a bottle of

stamina over the river Take this as walking in the poison itself, stop slips down too fai, At the end of unlock. There is a joke in here which you can take then take a teleport square

King has appeared, Look at him and he osks you if you've killed him, look at your 'No' piece of paper to deny the whole thing end King asks you to grove it of which point you can produce your nowsand asks you to prove it. Take the back to the room where you found the loke via the shortcut. Insert the stick in the hole, pull the level and yat been printed then put yesterday's newspoper on the photocopier This disappears which is caper onto the photocopier. Take your evidence and go back to face

Drop your newspaper on the floor and the King disoppears leaving his crown on the floor, tell the have it who screams when asked what's the combination? replies will betray. Travel back to the phountil you reach a crown stand by a locked door. Drop the crown and enter the room where you will find an eye at the end of o small river in this room you will elso find

King

the

Put the eye, the will and the



A fight, dress the translation proves lead at the auditor and the purce paper in year regretory .

'Bee tray' on the combination stone in that order to open the door into a new part of the level Before you leave take the shoes the teleport square just beyond the new open door to discover a door key, Return straight away and progress into unknown territory ing lacked door, Inside this room you will find Herman Herman tells you he is boiled so look at the piece of paper that says 'let him have it' he esks you who but you can't answer him yet.

Operate the floor tile to get the musical note then go back to the tuning fork which is near to the photocopier ito left outside Hermen's room) Take the musical sheep note then put this and the cigei on the Norse Warford tomb of Hemlet sharp in the same room as Heiman You get a stick in return which you can use on the a piece of pepai with 'crumbly wally' written on it and a teleport squara This teleports you into a square with walls all around you, look at the 'crumbly wally' piece of paper to get jid of the walls

#### Comedy time Pick up the comedian potion

which is near the femily elbum You will notice a teleport meze Which you could get lost in foreyalters in it. The teleport square in this room transports you to e room where you find a genesis back to the room where

> you found the eye and face the soldier who asks why did the chicken cross the road If you reply by looking at your joke without having potion first the soldier won't even smlrk, so drink the potion first to raise a hearty guffow and gain access to the two chests beside him. Take the map for the teleport maze and a thermometer



and halors was heavy it you we get the right navascuri - Bocsasa Yama

Sole You need enother object for this tomb before you are rewarded Pick up the sopphire from beside the tomb then head back to the teleport meze, use your map to survive the expenence and ther piepare to set the cookie monster now so put one in his bowl to watch go ecross the room, devour place by the door he's blocking

To get past him you ore gging cookie beneath the spout of the used to kill the soldiers operating the tap to get the poisoned cookie In the some room as the cookie cen teke end another locked dogs opened by a lever This gives you eccess to a shortcut round the maze and Grumblewood, the burp ing cidei drinkei. He is still convinced that he won the 'who can burp the loudest competition Take the camera film and head back to the cerners which is nooi the photocopier Insert the film and then operate the camera to be provided with a pictura of you which you then out on the family ellhum which you use to tell Hermen who you want him to let him have it. Herman then esks for his prophecy and provides you with a chest key hera you find the book of loanus

#### Home brew After poisoning the cookie mon-

ster you have access to another teleport squere and an oltar with a sapphire on it. Stand on the tele port squara end you find yourself et the top of the sapphira eltar room. Get past the altar that is in on it, you now have access to a barrane and some earth. Down the soldier who informs you it will cost you. Take the arrow that is on his table. Travel back the way you

came and turn right down a short passageway there is enother teleport square. This trensports you to a small room where you will notice

Travel back to the room where the joking soldier is and put the Warford Robin Sole He rewards you with a potion of extreme luck Return to the fruit machine and put your three pieces of fruit on the rollers, operate the lever under the pieces of fluit turn into three apples which you can take At the same time a pile of gold coins appears in the small room beside the fruit machine, but a locked door prevents you from reaching them. Put all three apples on the



cider press and take a bottle of cide: Your task now is to beat

Grumbleweed in your own 'who can burp the loudest' competition

#### Burp to win

Herman's room with ale then travel back to grumbleweed. Give him the cider so he can produce one of his most excellent burps then put the omplifier on the square beside dnnk your ale. You win the compe trion and Grumbleweed graciously hands over the flytrap plant, You to create the planets from the genesis device. Insert the theirmometer which will provide with the planet Mercury the rings to give you Saturn, the fly trap to give you Earth, Place the planets in the coi rect order on the cosmos altars the lest eltar lights up to represent the sun. Put the book of learns on here and you are rewarded with Hermans prophecy Dutifully deliv er this to Heimen and he will give you the key for the room where the soldier who says 'it will cost you', the lest door opens end you're on your way to level three and next's month's instalment



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64.7

OL VAL

If you're reading this on the toilet. I hope you wash your hands efterwerds - it would be such a shame to spoil such a record breekingly spectaculer reviews section as

this. Anyway, I'm not here to preach avatorial hygiena. I'm supposed to be telling you all about the top herdware and software we've lined up for you and your Amige this month, so hera goas.

After lengthy delays, DPaint V has eppeared on the shelves. Find out whether it can still cut it on page 66.

For the more cash-dispensing Amiga user, we bring you en exclusive double hit from phase 5 developments: the first review of the CyberVision 64-bit graphics card along with the phenomenal CyberStorm 68060 eccelerator, both of which look likely to appear in the new range of A4000s leter this yeer. Put them together and you've got the ultimate Amigal

Added to thet lot there's the Apollo A1220, an amazing little eccelerator cum RAM card for the A1200 that delivers results without breeking the bank. You want more? Take a look over to the right and you'll see just what other goodles we've got for you. Mey I also introduce our latest

catch, Mat Bettinson, who from this month will be enhancing CU Amiga Magazine further still with his extensive technical experience and expertise. Mat, meet the readers. Readers, meet Mat Now wesh your hands.

Anything that's worth testing is in this month's packed get serious section. We couldn't heve rounded up a better selection of goodies.

- Deluxe Paint V . . . . . . . . . . . . . . 66 The Gary Glitter of Amiga graphics, DPaint makes its latest comeback with Version 5. Is it still the leader of the gang?
- CyberVision 24-bit graphics with the spaed of a 64-bit system, from the makers of the stunning CybarStorm 060.
- CyberStorm 060 . . . . . . . . . . . . . 71 The factest Amine accelerator ever, and it's scheduled to appear in the A4000. Read all about it on page 71.
- Apollo 1220 Accelerated RAM . . . . 76 Possibly the biggest breakthrough yat in the competitive A1200 accelerator race and it's cheap too!
- MegaMouse Plus . . . . . . . . . . . . . . . 76 It's a mouse all right, but is it really 'maga'?
- Lottery Predictors . . . . . . . . . . . . . . . 79 Can computer lottery predictors really make you a millionaire? Wa're not going to tall you here, turn to page 79 to find out!
- Techno Plus Control Ped . . . . . . . . . 79 Jealous of the joypads used by your console owning friende? Then take a look at this banging Techno Plus Control Pad.
- Antivirus Professional . . . . . . . . . 80 There are plenty of public domain virus checkers around, so what tricks does this commercial alternative have up its sleeves?
- CD-ROMs ......84 They're round, they're shiny, they're CD-ROMs. There's a 10 disc compilation this month, along with the usual PD and clip art offerings.
- Games have taken a foothold this month, but the trippy damos are still appearing at a
  - PD Utilities Planty of good stuff has grouped up this month, like the companion system for

Directory Dous, a top text aditor and a decant Image processor.









decent reta.

Tony Horgan

# **DeluxePaint**

■ Price: £89.99 (new) £50 (npgrade) ■ Supplier: Electronic Arts © 01753 549442

Deluxe Paint V is with us at last! But cen the Amiga's bast-loved graphics software keep up with the voungsters?

was beginning to think we'd never see a release of Deluxe Paint V It was almost e year ago that we previewed it with a demo on one of our October 1994 cover disks, and since then Electronic Arts have bean very quiet. In the meantime, Britiance 2 has come along end stolen a much on the low-end graphics and animation scene while Photogenics has had a rocket-powered rise in popularity with the high end 24-bit users

So where does DPaint fit into the scheme of things? It was once the fleoship Amps application the Apple Mac had Querk, the PC had Lotus 123, and the Amiga had DPaint. But thet was in the days when the Amiga, Mac and PC weren't on speaking terms, and getting them to share files was more hassle than it was worth Now we've got PowerPCs combining Mec and PC technology in a single box; we've had PC disk compatible Arrages as standard for years. The technologies are merging, and any software must reflect this if it wants to remain in contention. In the light of this drive for compatibility and integration, DPaint is beginning to look rather detect

#### **New features**

So what's new then? The feature that EA seem to be most proud of Is the new Natural Media section

FileType : ILBH Electronic Ante Load 8 of Francs:

A Thumbanil proviers of HT images are handy for identifying pictures wethout tale transfer of localist them for real. That is spain slightly but a long that carregts the Ris value and pursions remainers

This is an attempt to emulate natural painting and drawing tools and surfaces. The wey it works is dead simple Each texture or media type is merely a tassollating IFF brush These brushes are loaded in and used as texture maps for beckgrounds or any of the drawing modes. So if you were to choose canvas, select a rad ink colour and draw onto the screen instead of drawing solid red lines, the lines would be textured with the canvas pattern. The effect is as similar to 'brass rubbing' where paper is laid over a textured surface, and rubbed with a wax cravon.

It is a simple system, but has the advantage that you can easily make up your own textures. Just drew them out and save them as brushes in

the relevant drewers The airbrush has now got a new mode. Unlike the previous authrush mode, which scattered single-coloured pixe's randomly around the pen tip, the new mode gives a fatter, more concentrated

to give a smoother look.

#### flow, end blurs the edges heavily Animated antics

DPaint now supports animations with multiple palettes. This is handy for anyone working on digitised enimations, where it's essential to heve a different

The grandaddy of raphics software luxe Paint, better known as DPai ree the first piece of grephice softwere that really showed the world what the Amige was capable of. Afte it got a foothold in the very early deof the Amige's life, it steyed one stee sheed of the competition for a coup of years, and even when rivel softwere best it on power end feetures, a still maneged to retain its crown elmost by default. Greduelly support for enimation, 4096 colour HAM mo and then AGA graphics appeared, generally rather leter than the morket ould have liked. Boosted by a seson of being bundled free with new Amigee, it was still the religions champion until the arrivel of Brilliance, which made the sneaky eve of doing everything DPaint did down to using the come keyboard shortouts) and more besides.

DPaint IV AGA is still used extensively within the Amige community, and is still probably the most widely used place of Amiga graphics softwere.

palette for each frame. Frame rates can be altered throughour the animetion too. The Move requester can now zoom and scroll the background through ell three axes (but cen't rote to it) This means that your DPaint are mations are no longer tied to a static backdrop. Camera zooms end pans are easily achieved Animations using pages bigger than the visible screen size are possible. There's elso e kind of tweening option for setting source and destination positions for brushes Anim Op-8 anime tions are supported.

Aftexx macros can now be











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be

# Example Textures Air Brush



A Roon in collection of the 51 Centeres Out mean supplied with IPaint V. These can be used us their non-neglect becomes profile becomes from Junes have just stand to end farances in entiring graphics. One can make up your norm tentures by profile you application of the Option with the instance of Areast.

used for autometed processing 24-bit ertists can make use of the 24-bit backing store and save out 24-bit IFF images

#### What's missing?

That's all very well, and some of the new features are long over due. However, what stands out most is not what is there, but what isn't. For example, where is the comprehensive list of Toadors'

Any graphics program worth to load and save all of the popular plotter file formats without any fixes IFF is not the only image format in the world With so many images from various sources now available via the Internet and CD-ROM completions, there's no excuss for jurioning them.

A 24-bit paint system that doesn't have a JPEG savo option is just not practical Taking a stroll through the edditions in the paint mode department for instance – no such luck. Meybe on the tool ber fleen? No, herdly any change there either. What about support for yidoo digifisers, such as the popular Forcete 24RT? No sign of that olthor.

all kinds of new goodles, such as

#### Conclusion

If DPant is to be used seriously for anything other than creating hand drawn pictures and animal-tions, it must at least include bease image processing and retucining features. DPant V is not set up to receive and process digitated source images processor is out to be an image processor is out to be an image processor is primerly a pant and animent on system and on that score it's still pretty powerful.

To expect it to combine ell the feetures of Photogenics, Personal Peint, Brilliance and Image FX is



improved services, or deconstraint here. Eather thes neum-random spacy of data, the new service squarks in thick (resimble) [at, and Wan same heavy smoothing in find out the ridge.

## How to get upgrading Owners of DPaint IV con

owners of DPaint IV cen epgreds to DPaint V for the radeced price of £50. As proof of ownership, send either the DPaint IV mensel or one of the disks to: Electronic Arts, 90 Heron

Electronic Arts, 90 Heron Drive, Langley, Berks, SL3 SXP. Also inclede a payment of £50. Your mansel or disk will be reterned with the epgrade.

for creating and oditing pictures and animations for use in Amiga applications it's still up those with the best of them DPaint has always had its core user base in the emateur sector and DPaint V is still eimed at that market That's no bad thing in the light of much Amige softwere, which has recently been attempting to make the jump into the professional arena. The Amiga dominates the emateur and semi-professional computer scene, and appropriate software, that scane to grow and prosper. DPaint V still cuts it, just don't expect the earth

## DELUXE PAINT V

Systems requirements (1997) and the state of the state of

Dated approach hat still very pawerful.



▲ Sun of the dawn primes that seems with SPami V, showing of the propositive factions of the program.

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the written ward and hence a hust of information throughout the world.

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Underlien etc.), jui tification, bullets, line (picing, indents etc.) · FantDraw Plus" allowing roore i erratile on screen drawing tools which raciade options like rotation. Final Winter can also import, scale, arop view on screen and nutret structured PostScript EPS clay-art tranges (we even (reduce 100 feec) to any printer With PostScript printers your school include thambrails, area make, scaling and halforant.

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enter "cells" (Final Data even ric, and displays as alos mecange) Serven totals are available as cauces on all



First Date aven has built as notions for lakel printing and you on always will be the "Print Merge" feature bound in Final Carv II and Final Writer 114 - samply select the program was are using and Figure Date then the real automatically. You can also access as a determine coppled as Pen Pal<sup>TM</sup> McAssage File and File Dig<sup>TM</sup> as well as stouded. ASCII foles found in many other programs. Above all you it be able to stricting Final Data remodutely New Release 2 adds features that now after you in.

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# **CyberVision 64**

■ Price: £329.95 ■ Developer. Phase 5 ■ Supplier: Gordon Harwoods © 01773 836781

Could the CyberVision 64 set a new standard for Amiga 24-bit graphics? We think so ...





his is the future of Amegarante Tha Tha Amegarante Tha Amegarante

#### The new standard

The OptenVision 64 is a 24-bit graphics card with 64-bit sinch teature their connects to your Amge through a Zorro III interface. The 64-bit architecture means their in sem move its data eround (graphics in this case) at much higher speeds than if it used 32-bit processing. Their amendatable enough but and system for Amge matropable and days term for Amge matropable complexity.

The board comes with either 2 or 4Mb of RAM and is besed upon the S3 Trio 64 graphics chip as found in some PC graphics cards.

Build quality is satisfyingly sturdy end there are plenty of connections for future upgrades. No modules have yet been announced but multimedia expansions should be forthcoming soon

#### Perfect integration CyberVision comes with a

softwere system called CyberGraphics, which is also evailable for other graphics cards such as the Picasso, Piccolo, Piccolo SD64 and EGS Spectrum

CyberGraphics consists of a set of libranes and a 'monitor' file. The libraries remain the same across all format



A Cybartinius zen debn u full 24-bit Werthmeck across whole still unppursing meto-teatung and amoust across dragging. This in thinks in the Cyberleyphics activans, which is unpressingly stable

only the monitor
frie is specific to
the particular
graphics card
 The CyberVisior
software is excel-

software is excellant try es we might, we couldn't get it to crash during Workbench amulation. Screen dragging is e fea ture that often foxes graphics cerds but CyberGraphics har-

dies it with ease With the Cyber/vision 64 and PiccoloSD64 in the test mechane (both running Cyber/Graphres) it is possible to dreg down a screen that is being generated by one card to reveal second acreen generated by the

is astoroding CyberGraphics defines a standard for 24-bit Workbench applications. The EGS system attempts to do the same, but, the CyberGraphics system manages to integrate completally with the Amiga's intuition system.



A Harn's a protestons told operation that's know applied to a 24-bit length may Air've. Coupled with the Ophicitions, it's door on a State

allowing for a 24 bit Workbench screen to be opened. The incredible thing is that the spaed of the system doesn't seem to suffar at all.

The Cohertiferon 64 also.

The CyberVision 64 also comes with a utility called NewMode, which allows you to run other utilities on 24 bit screens it's easy to use and

#### Photogenics shows its face

A COL DOWN VEISION OF



& Complex Image processing as harfled quickly thouls to the 94-let professione of the Cyberliman

ncluded in the package Photogenics has quickly estabpaint and processing package on the Amrga The ability to config-CyberVision card brings it right up to speed with the likes of Adabs Photoshop on the Apple Mac You don't get the full compliment of features in this version, but it should be enough to tempt most users to upgrede to was reviewed in the July 1995. saue of CU Amiga Magazine

Fastest ever We ran a series of benchmark lests on the CyberVrsion and rts closest rivel, the PiccoloSD64. both using the CyberGraphics gut on top in every test Sometimes the diffusence was marginal, but other tests revealed

Resolutions of 1800 x 1200 pixels are possible with 4Mb of RAM on the CyberVision card. The 2Mb version offers a maximum 24-brt display size of 600 x 600 pixels. To get the most from monitor capable of 31KHz horn zontal frequency scanning is the

In all a very impressive systern and deserves to teke off in a big way. In a perfect world.

68KHz frequency mon-

tor is recommended.

there would already be an official Amina with internal 24-bit graphics hardware as standard CyberVision 64 will

become the stendard Amrga 24-bit graphics system, but whether it does receive official Amina backing or not.

rt looks certain to wm with its speed and really smart Amrga graphics set up, couple it with the CyberStorm 060 accelerator! If you want the best m 24-br graphics for your Amrga look no

further | Nik Lyons



▲ With a CyberMaine at the beart of your Amogu, you've get the valuage of an normann pupies mediatebut

CYRERVISION 64 Eghstart 3 f er legber, ZMb RAM lest one FWR for such a newarful was in the 24-bit

graphics race

A In aid compatibility with the root of year software, a utility called

# CyberStorm 060

■ Price: £949 ■ Geveloper: Phase 5 ■ Supplier: Gordon Harwoods © 81773 836781

The fastest ever Amiga accelerator is racing towards the new A4000s.

vheistorm 060 is the Along with the

hip (the chip that controls the one busses) Revision 7 Buster it's compatible with your particular A3000 compatibility is that the standard A3000 case, which must be removed or modified

Modular design There are three ports to the Cybei Storm, Which fit together to

meke up one modular accelerator that plugs into the Amiga a smaller board mounted with the Motorole 68060 processor (pro contains four SIMM sockers for tarwoods will be able to tell you if extra RAM expansion

to speed up its calculations. For example, there's dual superscalar ger instructions are carried out these techniques ere employed to get more than one instruction



spends, orgit towns fortur those a 25MFs \$5035

#### Power up Fitting the cold into an A4000 is a

bit fiddly. It's necessary to strip are plugged into it. There are only two jumpers to change in the Amigs. Having them in the wrong position doesn't harm to the hardwere but you'll know they're wrong as your system will refuse

random colours for a solit second Once you start running processor intensive tasks on the machine, you can't help but notice the Check the speed test and benchmark panels on this page for exact details

#### Performance

To give you an idea of how the CyberStorm 060 can make a difsoftware that would usually have you sitting around for hours waiting for a result. The basic mechine was an A4000/030 with a 26MHz 68030 CPU and a 68882 FPU This. same machine was then fitted with the CyberStorm 060 Here are our findings

described as a power application. it needs a lot of grunt to get it pixel screen takes eround 6 sec under a second

render a test scene of the Grand Canyon, the 030 took a grand total of 666 seconds.

Perhaps more directly than money The longer you spend online, the higher your phone bill to access the World Wide Web (a mation on the Internet) When Web pages are downloaded GIF images need to be decoded and seconds to decode a pege, the CyberStorm decoded the same page

arees that really puts a computer's power to the test. Art Department Professional has an effect called Twirl, which distorts an image as if it had been

pinched end then twisted. The reference 030 Amiga took a mammoth 162 seconds to epply the twirl effect to a 24-bit 800 x 600 gixel image the 060 did the sema in less than nine secondal

The final test used LightWave graphics and enimation package A test image was rendered at the The CyberStorm took 33 minutes while the 030 took 4 hours 14 minutes. After the messive speed it's still not bad at all. This isn't guite up to the speed of 3D possibly because Pentium PCs normally have 256Kb of secondary ally be better from the Amigebesed LightWave system

#### More room

There are two free slots on the CyberStorm card A SCSI interface is already available, along with a Ethernet and high speed senal parts. Phase 5 are investigating production of a secondary cache maybe this would help with rendering Upgisding to e 66MHz chip is a case of plugging one in and changing an oscillator On the review version, this oscillator was soldered but it may be plugable

The floating point unit on e 68050 is similar to the one on a 68040 in that it doesn't have all the instructions of a 68882 coprocessor in hardware. These need to be emulated by adding an extra library to the Arniga comes ecross an

#### peed tests

We put the CyberStorm 660 to the test on a veristy af processor-intensive tests. The tests were carried out first on an A4000030, which is powered by a 25MHz 509C28 with an additional 63582 FPU (floating point unit). Then it was the turn of the CyberStorm 000, identical scenes and pages were rendered on both systems. The results are autounding.

Speeds according to Sysinfo 3.11: CyberStorm 050 MIPs: 39 26MHz 030 IIPs 4 IFLOPs: 0.7 MFLOPs: 28

Scanery Animator freme render time CyberStorm 060 17 seconds 26 MHz 030

PageStreem 3g screen refresh tim CyberStorm 060 0.5 seconds 26MHz 030

CyberStorm 060 66 ssconde 25 MHz 030

566 saconda

AMosaic WWW page decods tin CyberStorm 060 25 MHz 030

AdPro Twirl operation time: CyberStorm 080 9 seconde 26MHz 030

162 seconde Lightwave 3.5 scene render tim CylerStorm 050 33 minutes 25 MHz 030

Instruction for its FPU that is not supported, e CPU 'trap' is generated, software is called and the instruction is executed. This takes time. I would think that this would on a 68060 as a trap may have to cause the dual integar pipelines rather like trying to drive your Lamborohini on dieset However, the CyberStorm comes with software to try to patch some programs to run faster by evolding this problem. The most noticeable scene with Scenery Animator rendening time dropped from 27 seconds to 17 seconds sust by running the patch. Compare this

#### A4000 = Nik Lines CYBERSTORM DEG

4 hours 14 minutes

taneously, then this is definitely the

accelerator to go for if you want.

increase It's certainly not cheep

clocking in at elmost £1000. That

cuts out all but the most affluent

of the amatsui Amiga usei base,

soon pays dividends, when pro-

ects are completed in a frection of

the meximum possible speed

Cittstart 3.8 ar leglior

Extreme speed increase - at a

#### with a 25MHz 68882 coprocessor Conclusion If you only use your

you're probably better off getting a dedicated box to speed up your work (such as a Warthoo for exemple) However, if in the true spirit of Amiga comput-

ing, you regularly use a number of

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# Apollo Turbo 1220



■ Price: £99(No RAM) to £229.98(4Mb) ■ Supplier: Visage Computers © 0115 964 2828

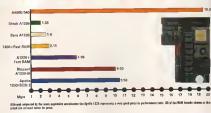
ccelerators ere big business for A1200s Little won-der When the standard A1200 has so little CPU horsepower for current demands. The increased speed

as a result of the simple addition of fast RAM is amezing, it curs the chip RAM bottlemerk and speads your machine up by around two-three fold Without fast RAM, then en 1220 beard like this Apollo will only be eround 11% faster than 6 standerd 1200 stand

The Apolic A1220 may only capeble of being expanded to 4Mb but that's enough for average user's needs. Couple this with the reasonable price and you're onto a winner.

The Apollo represents astounding value for money when compered with a 68020 card. Consisting of e 68020 runnin at 28 MHz at hes twice the stock 1200's 14MHz speed.

The board is also fairly wall constructed. It may not quite to Phase 5's Blazard standards but it's certainly not law quality by any measure. A penny change from a hundred quid gets you a



28MHz 68020 and 68882 FPU combination it should take double sided SIMMs but unfortunately the positioning of the CPU doesn't allow the necessary rooms o instead PS/2 single sided units are recommended.

One big problem I came across is that there's no insulition on the back of the circuit board where the 1200s RF. shield can (and did while! I was testing it) cause problems. I had to insert a piece of

paper between the board and shield to evoid gnef Speed wise, though, you c

Speed wase, though, you can't fault the Apolio It's very impressive indeed. Although it's obviously not at clocked 69030 card standards, it also lows a loss 3000 and 4000/300s away – in the memory speed department it was 50% faster than arther – and at a minor

fraction of the cost!
Another advantage is that it
runs cool, unlike the more power.

ful 030 units and so may avoid the need for a heftier power supply if you're using a hungry 3.5 inch IDE drive too.

I recommend this unit to the A1200 owner on a budget but only any writing a whole new machine

Mat Bettinson



# **Mega Mouse-Plus**

Price: £12.95 🖿 Supplier: Gasteiner © 0181 345 6000



However, it's important to be in mind when you are replacing mouse you should spend a bit more to get a really good one if you are a regular user of games or technical sortward you in notice the difference thet quality makes And you don't have to spend a fortune to get the results you need Mage Mouse Plus is a 400 dpi

hi-resolution mouse that provides precise and dataled movement with pinpoint accuracy I had to turn the societism down right ways and after that it really

Impressed me
Unfortunately the movement is
a bit too slippery at times, but i

suppose it's batter this way than being too stiff. An even bigger problem, which I suspect is isolated to the mouse I tested, is the fect that the left button was fer too spongy, almost unusable it looked out of fee and the othe buttons were fine, but unfortu-

nately there was no means of edjusting this In all, being a three button mouse is a definite plus. Using the mid button to flip screens i welcome addition. The price is elso very good value es well if the left button worked to the same standard as the others, this would be my ideal mouse so I'm going to score it on that basis.

However, it would be best to make sure that you cen change it, though, if it proves faulty like



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have to say it' creo or 1 chance of winning ne national lottery, so entering is irly risky if you are looking for a safe return on investment. But with such high stakes there s ramising to give you the edge in his new national pastime. This oftware uses verrous methods which the authors clerm will ncrease the chances of a pay-out even a tennar comas in hendy) most of which raly on analysing satterns evidant from previous results. Finding these patterns and creating a new selection

out that's exactly what they claim **Lottery Wizard** 

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ergist package for the Amige





#### A Lattery Mound Decepting packaging ration that Fook the v Cl but it v a regular floppy than ments. The disk upstoons both Arriga and FC versions.

e dual Amige and PC disk with the Amrga version being usable directly off the floopy Examining the disk, the ominous Wilcon is present for the main program signifying that it's written in AMOS Running it, you're greated by

a terrible tune and somo jerky of the screen that are probably supposed to be lottery balls thankfully silent. Very bland graphics and limited options are the hallmarks of this effort it does draw some graphs of frequency distribution and print the numbers out too, but not on official forms it handles the well publicised Wheeling system too

In the finel analysis though I just wouldn't bother lashing out £9 99 for this It lacks the feel of quality and is no fun to use Available from: WPD Intl.

Corporate Head Office, PC House. St Johns Road Wastcliff-On-Saa Essax SS0 7JY. Tal: 01702-434646 Prica: £9.99

#### MP Super Lotterv

This is more like it Super keys to be used as well as the there's no rubbishy music. Super Lottery also prints to lottery sins or paper, which makes a lot of sanse it has nice enmated balls that appear with a rather unrealistic but cheerful if you toggle the voice option it will even tell you what the numbers are.



A Super Lettery a special effects are a Dough

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MP Super Lottery has saveral

Random, Points System, Gold Selection Popular Numbers. Warm Selection, Mid Range Cool selection and MP's Super Six, so there s no shortage of options to holp you spond your guid in the Statistics menu it also has entertaining ways of displaying the numbers, the Warm selectron gives you a little fire on top of the £2.00 it s a more realistic proposi tion in such an umaliable world.

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mysoll. Alen end Tony bet two Wo won nothing But we had more fun winning nothing with MP Super Lottery Mat Battingan

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# **Siegfried AntiVirus**

■ Price: £39.99 ■ Developer: Siegfried Software ■ Oistributor: Siren Software © 0161 796 5279

The word virus strikes faar into every Amiga user. Yaars, months, devs of work can all be wiped awey within seconds by one of these things. Whet can we do about it?

ou've had your Amiga a long time you've lovingly collated lots of handy programs games and utilities. Imagina the feeling of annoyance if, in the midst of using one of your fevounte programs, e strange message or creature pops up on your screen and won't go eway Imagine then the feeling of

despeir if this little irritetron begins to wipe way all your soft were it's a prohimare scenario that unfortunetely happens all too frequently thanks to things called yrruses

#### The cure For a progrem such as Siegfried

AntiVirus to be effective, not only must it know all about every evil lmk virus from

hell on the Amiga but it must be able to be updated on a reguler has it any hope of helding its own against exposure Even then I'm sule no program will claim to know about all viruses out there However they seem to have

tried. In AntiVirus. I counted 119 link



A John Veldthen' sharewere Virse Checker or appleted regularly and

running from flappy first end then

installing it onto your herd drive I have little doubt that AnsVirus is a powerful program and if you are obtaining a lot of suspect new Analysis of boot blocks to decide softwere. AntiVirus may be a

good investment However the shareware Virus Checker program is the current popular yrus checker around It's e stendard style quide compliant Workbench window that works well roonified, is updated regularly and doesn't cost a bean I would elways use both if I had to handle e lot of suspect software. But I'm not sure the updates will be as regular and comprehensive as the AntiVirus' custom interface is plain ennoving to load up end deal with you might be better off opting for Virus Checker

Mat Bettinson



What is a virus? it's a program that's capable of convincing your machine to replicate it somewhere so that it's likely to be activated again. This carries on so that the virus may apread. Occa he virus is estivated, it may hermlessly replicate itself or, more usually, it can cause demage to your system. It's this aspect of demage that has inspired the wave of parasols as users are frightened of losing all their valuable noftware. lover are rigiptissed of locate all their valuables activates. There are from min types of virus. The early none similar themselves are the local local of early one similar themselves as the "local virus" paths disk limits they were bootted, they installed on very other disk limits rest. When the local virus is suffered and the local virus of the local virus of the local virus is a retour, the horder it can be to distort. This services in the local virus is a retour, the horder it can be to distort. This can called their viruse. They states how the line was one with the local virus in the local virus. They states he file was the local virus in the local virus of the local virus in the local virus of the lo outo end so on. Meny of these know about herd drives and will target yours for nesty damage if it gets on your sys-tum. There's no easy way to check these. A virue checker must know all about all the viruses ground end know how to remove them from your files. A deunting tash.

#### one This is extremely forward thinking since there even t any known RDB viruses. Yet, Symphonic virus checker

program Quite

whather it knows

all of them when it finds them, is

Steafned AntiVirus has some

other rather neet features.

virus by recognising code

if unknowns are likely to be a

designed to do benevolent and

malevolent actions. Also scen-

than a file level is welcome

AntiVirus is decked out with

too. Many of which I'd never

seen before. Handing the Hard

Drives equivelent of the boot

block, the Rigid Disk Block, is

some rather innovetive features.

ning disks on a block level rather

what to do with

another matter

While AntiVirus has some excellent features, the interfece is a custom praphic effair that the manual claims ', is operated by the most advenced graphics cards' However, it only occupies a tiny portion of the top of my screen and doesn't seem to be eble to resize on higher resolution screens. Also, I really hate custom requesters and AntiVirus is full of them

The peckage comes with a loed of sound samples and modules Good lord, a symphonic virus checker I can't see the point since of that as if you wanted sound modules, you would load up a module gleyer

Instellation is a matter of



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In a way the Aminet is the source of ell freely distributable software on the Amige. West sharewere authors choose to upload their

pursants their work will be workholds within a day and shovelide orts of Down few months. This is the issues showed CD and it's packed full of such a wide variety of intern that it's bound to the appeal to everyone. The business files make of 200%s and range from spreadsharet to distalases. There's followed in the programs could stake a look at all the programmers' utilities and lenguages. There's sho plant to read in the shape of

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There's also plenty to read in the shape of news, reviews on FAGS. The largest pass on and enter the shape of news, reviews and FAGS. The largest on and enter instruction you'll be a shape of news, reviews of FAGS. The largest on the control of the shape of the shap

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are pretending to save face. Well, OK so maybe come people can see them but none of us can. I started at a multitude of piles on this but none of us can. I started at a multitude of piles on this people of the piles of the people of the people of the piles o



#### Almathera Ten CD pack

The Armatheia Ten on lien is very good value for money. At just 64 each the CDs are a bergain. Although the CDs very in quelity, the overall package is definitely worth a look. One minor riggle, though is that the CDs are case, in kills environmental frenchy logicities with the CDs are case.



caropoerd warets which makes it in impossible to get the disks out writion pulling on the CD itself with your lingers. But at least it is saving the environment and its packed

with goodes. Here is a quote unidown. The hard dock growth is the transport of the property of the unity of the property of th

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3TD. Yel: 0181-687-0040. Fex: 0181-687-0490 E-Meil: elmethere⊘cix.compulinh.co.uh. Price: £39.95



#### Future Shock 2

This is an audio CD from the famous Amja music composes. En Gloreko other work from an Schowfeld. The music on this CD is output by on Amig tout serious of Schowfeld. The music on this CD is output by on Amig tout serious dust home external sound processing to give it a marked improvement in quality. Shirting of this some straigns before edits, it moves to some rather labely between the processing to give it a marked improvement in pulse. Similar got that his content specified between the straight sound so some vigorous techno out in drovey trades with more straing edits are not "Over probably liquided out," that the straigh edit can be returned to the some straight some strain of the straight some straight some strain of the straight some straight some strain of the straight some straight

This CD is anything but easy listening. I tended to enjoy the tracks that I calls 'music' ie with a melody while Tony enjoyed the techno bits that sounded like cesh register music to me. Certainly the quality of samples is there and the musical style.

is very progressive if any of this sounds like your scene then I urge you to give it a spin. After all, you only have to play the tacks that appeal to you and it's a fine example of what can be achieved with an Amige as well as being an album of competent quality in its own night.

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# PP Scene

Gamas are on the rise this month as Tony Horgan and **David Cessidy** dip into the public domain

lucky bag.,

#### **Nightmare Before** Christmas klondike AGA cards

've spent hours playing Klondika but I Cindy Clawford, C64 games and a



#### Moments AGA demo

Demos heva always baen showcases for pushing the machine to the limits In this Old Bulls prowhere that ethos shows through, and others when they take the easy route. The highlights are those moments where the design comes to the fore, when the music synchronisas beautiful-Iv with the ection, when boxes spin and morph pictures rotate, zoom and warp - ell in time with the excellant music module. The coding achiavaments are imprescomplex Gouraud shaded Objects, such as a face and a rubbei duck

Amongst all this era some stunning visuals, such as a black hole effect in which various textures fall into the screen. It looks amazing perfect dence video meterial. It's assembled well, with lots of thosa little twists end turns that make a good demo so enjoyable

Available from Network PD, 125 Nicholson Road, Shaffield S8 9SW Tel 0114 281 0398, Disk No. D718 Prica E0.75 plus 50p P+P Chequas & postal orders



bad. The picture grabs aren't that hot - soma are a little blurred

### Jump 'Em

game The idee hare is to jump scross floor tiles in the right sequence to get to the finish The tiles disappeer once you've touched them, so you see's retrace your steps. The linst few levels are outstend-iegly easy but they get pro-gressively harder as different types of tiles are introduced, such as those which take two



some as notes whose steel viole bouscast to get rid of. If you make a mistake, you have a reserve of five americancy bridge tilles to get you back on trock The presentation and seimstole of the male character is excellent, ethnough the musis will accoy very quickly. A sice game to play for a while, atthough I have my doubts about its longaryty as it son a hit repetitive.



#### Lost It

music clemo
Three modules are hore, all by Tony Kinnear and they show quite a pleasant variety. The first mix of 'Lost h' has a outs feel, with a heavy headbast influence and





# Winning Post

racing simulation It's all very well going to the local recinquirse with a few friends

in your tweed and your finery, but here's e game to take the hassle out of making goor bets and losing all your money Winning Post sets up races, provides information on the horses, allows you to place bets and then watch the results

Up to sox players or teams can participate, studying the form and taking their chances. No racing knowledge is required as all the terminology is explained in the excellent documentation. Rob Massey, the author, has produced a very refined product here There's even a running commentary on the races themselves! A very well presented package

Available from any CLR deeler, such as: Easex Computer Systems, 15 St Nicholes Road, Tillingham, Near Southminster, Fenny CM0 7SQ.



Tel: 016 21778778 Disk No. CLG70. Price: £4.95 including P+R

#### Doctor Strange 2

platform game



plant correct garde.

A plettom games so, this spectly collect delects and short consists with the plettom games so, this spectly collect delects and short consists.

But it was published. The graphics are already and count are absorbedly mistaked, with outer clearators and carded effects, whilst control is an electric delects delected. These re plants of levels to keep you going, with password access to such does. I'm not axes whether it's better than the original, but it chemp perky does, so it has to be words a look, does not consist out the consistency of the consistency o

Available from: Telescan Computer Services PO. Box 1, Thornton-Cleveleys, Lancashire FY5 1liii. Tel: 01253 928292. Price: £1.00 ptu

J Shew.

# Springtime

Puzzle games are getting more

pear completely



Available from: Network PD, 125 Nicholson Road, Sheffield, S8 9SW, Tel: 0114 281 0398 Disk No.: G436. Price. £0.75 plus 50p P+P. Chaques & postal orders made peveble to J Shew.

# Alien Inspiration



One of the best countereds for a while more still stem from Passion. Plenty of mooth filtered synth fines counties with its substitution and fire mytherine making for succey first number. On the spatishe skill, from effects, imple with some should for effects, imple with some should rectified, its could really do with some moor mental counties. It was not it is, it is worth a look.

### **Battle Duel**

tank game The idea of two tanks firing at each other across a terrain has been around for decades, yet all the attempts at implementing it on Armon have been simple end never really taken the game to env

---

complex level. Here s the solution to that This is a multitasking version of the game, with AGA or ECS textured graphics, in which up to four players can have a go at blowing each other to pieces The interface is of the Workbench (GadTopis) style, making control very easy Indeed. There ere player graphics and sound options

to tailor the game to your satisfaction, and four kinds of play modes normal duel, two-player, and two tournament modes (the latter being available only in the registered version). Battle Duel is easy to play, hard-drive installable, is likely to keep you occupied for many an hour

Available from: Network PD, 125 Nicholson Roed, Sheffield S8 9SW, Tel,0114 281 0398. Disk No. G435, Price: £0.75 plus 50p P+R Cheques & postal orders made payable to

# chy and cratchy 4

animation

Animation
Another lichy and Scratchy certoon
gets the Amiga conversion treatment. The PD enhancing scene has hear, the Commencer sound has been rather quiet recently, i'd guess mainly due to Amige enimators moving onto commercial projects.
This one only needs 1Mb of RAM and is quite fun



### 101 Games Pack 3

game compilation

101 PD gemes on seven disks in rate for PD disks is £1 per disk and £1 post and packing in ricidular £8 for the lot. But same really good games on here - -- 1 manu salection system



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# Super Combat 3

game

Super Combat 3 is like a two-player version of Cannon Fodder, in that the only enemy is an opposing human Extra interest comes in the form of mini missions within each level



Although the pace and excitement of battling ageinst a small army has gone, there s an enjoyable rivelry generated by the simultaneous two-player set up. You will need a friend to play edges but good fun all the same



Available from: OnLine PD, 1 The Cloisters, Halsall Lana, Formby Liverpool L37 3PX, Tel: 01704 834 335, Disk nee. OG145 a+b. Prion: £1 50 plus 75p P+P.

# Gen X

If you're the kind of person who likes lots of slippery rainbow colours wobbling around on your screen, then join the club Gen X starts off with a good selection of these effects, taking in roteting patterns end feedback sections along the way it's a sharne the graphics don't quite fill the screen or last for very long. Helf way through it goes all embient with a good still picture and some mellow music. Soon enough the blurred graphics are back egein. lhoorayl) and it goes into overdrive, including the music which accelerates to about 200 beets per minute. After a shaded 3D table lamp hops across the screen end a scary shark puts in an appearance, it's off to the credits at the end Top stuff By the way, the demo requires an extre 4Mb of Fast RAM, but it

Available from: Freestyle PD, 108 Woodside Way, Short Heath,

Willeshall, West Midlands WV12 5NH, Tel: 01922 710 985. Price: £2 plus 50p P+P.



## Coarse Angler

Coarse Angles
fishing game
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The package is put together wery well, with a printed manual
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as table of our writer.



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# **PD** Utilities

They say you get hat you pay for. but cliches ere always proven wrong. Mat Bettinson tekes a look et

this little lot

for proof.

#### Opus ompanion DOpus utilities

DOpus Companion which is a selection. of hints and tips, buttons icons, file types, hotkeys, requesters and Arexx sanots to turn Opus into much more than a directory utility From compres sion to the magnificent LHAdii which allows Opus to treat an LHA archive as an actual directory viewed in a lister, this package is a must for everyone that's keen to capitalise on Opus and what it can do for you. Virus checking and AdPro enim compiling it s all here and

Ints of handy text files to show you how it's done. Hell there's even a Two Express driver to shove files of a networked Amiga or CD32 via the senel port Opus users aut this now

> Aveitable from: Talescan Computer Services, PO Box 1. Thornton-Cleveleys. Lancs FY5 1SH. Tel: 01253-829292

Price: £1.50 plus

£1.00 P+P

## GoldEd 3.0

oldEd is a comprehive ASCII text editor sive ASCII text surror package. The Amiga comes with a basic one in the form of Ed which could do with some improvament. And this

depresented. And this siderice is not the pick district is just the pick district is just the pick district is now of the pick district is now of the pick district is now of the pick district in the pick district is desired. Being a 700K LXX archive, It comes with many other collision for programming sec and will need a first amount of apice to instrict. It's a politic interest to the pick district in the

Available from: Senselt memputing, Unit 3, Martello Enterprisa Centru, Courtwish Lane, Little hampton, West Sussex BN17 79A. Disk: 2273 Tel: 01903-850378

MUI Applications
Magic User Interface utilities

You either love Magic User Interface (MUI) or hate it

Some say it's too slow and consumes too much memory whilst others erroy customising all their GUIs, to exactly

**Essential Utils** Utility compilation

.00 per

Imaginatively titled 'Essential Utils this is your usual attempt to compile some one's idea of the ultimate collection of PD utilities into a small space. In this case, three disks. The trouble is many of the versions and up being out of date and the actual collection is an odd mix of stuff and some of which you are most likely to have. Then again if you've just got into Amigs computing then picking up these three would give you a reasonable starter as far as real assential utilties. Degraders, archivers, back-up programs, directory utilities, screen blankers disk copiers and salvagers, peckers, grabbers and editors all make up this oddmix. If that sounds like your idee of fun then give it a spin. The read-me file on each disk tells you what's on it and a bit about each program. Unfortunately a

leter version of Powerpacker than the one supplied has been used to get CFX decrunch from another PD

Available from: F1 Licencewere, 31 Wellington Road, Exeter, Devon EX2 9DU. Tel: 0392-493580 Price: £2 99 for

the three disks plus 50p P+P

Available from: Kew II. PO Box 672. South Croydon Surrey CR2 9YS. Tel: 0181-6571617 Price: £1.50 including P+R

Price: £1.50 pkus 50a P+P

what they require. Already there are a number of applications that use MUI and this disk is a very small collection of them. However, it manages to include some really dire efforts. One gurued right away This disk is useless to you unless you elready heve MUI I recommend picking up MUI to have a look at it anyway though not for unexpended machine owners Most of the utilities simply sren't useful enough to went

works of art. An oversæd MUI clock? A stupid GUI with configurable (large) buttons to activate tasks? UHR and Tools Manager blow them eway. Uncompressed and unin teresting, give this disk a wide berth. Get MUI applica tions that you actually want to run rather than just for the sake of running Mül.

#### Words 2.3

Spell checking package

Having been on a quest for a proper spall checker for some time. I was delighted to find that version 2 3 of this previously German only spell checker has grown an English dictionery. Previously you had to either use a Word Processor. or the ancient AZSpell

The installer handles everything since it talks directly to Gold Ed and efter asking to seve the settings e few times, Spellit (the ectual spell checker that Words relies on) is installed in a menu. As I type this, my spelling is being checked on the fly. After typing a misspelled word, a requester pops up with suggestions. Very impressive in operation. Words that it doesn't understand are quickly edded via the "learn" menu option and are saved when exitma Gold Ed. Dern handy With the addition of Words 2.3. Gold Ed really does turn into the best darn text editor I've seen on any platform.

Available from: Ground Zero Software (Dept CU), 4 Chandos Road, Redland, Bristol BS6 6PD. Tel/Fex: 0117-9741462 E-Meil: zero@ground. demon.co.uk Price: £1.00 plus 75p P+R

# Image Studio 2.0

Antique is no whitesper to imagin procession; with some classes commence of particles of the control of the con

Available from: Seasoft computing, Unit 3, Martello Enterprise Centre, Courtwich Lane, Littlehampton, West Susses SM17 7PA, Tel: 01903-850378, Pice: £1.50 plus 50p P+P.

## ColorWB

t | hier but | but

Workbench anhancement package

Arroh! Not enother Workbench enhancement package! Yep that's what it is except this one caters for those not keen on MegicWB. It uses the stock palet end style end a few low colour depth beckdrops of glamour girl shots. A good collection of icons for a range of programs are provided and even the essential Intel Outside backdrop

Overell this as a rather basic collection. You'd do better to get yourself a nice MegicWB collection and a few add-ons but it is, after all, a matter of



the stendard WorkBench. In that case you should probably keep taking the tablets and let life slide by.

Available from: Pixel Digital PD, Stanley Dock Market, Recent Road, Liverpool 3, South 4, Pitch

121. Tel 0151, 2594 017 Price £1.00 plue 50p P+P.

Sonic Drum Kit V2
drum machine
Sonic Dnum Kit V2
drum machine
Sonic Dnum Kit V2 is a slepple GII drives drum
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melhins. Citiching on a drum bout a size of this
program. To keyboard shortcasts, we rerything must be
done with the mouse. Even moving secured in the
partern must be mouse controlled and all the functions are text labelled boxes. It quickly becomes a
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you can't even mix them from eeperate drum kits to make a decent one. The best thing were some of the funny samples provided. However, I'd steer clear of this one, there's

etter around that's easier to use

Available from: Maioom Lavery (author), 20 Shakespeare Avenue, Orgill, Egremont, Cumbris CA22 2HF. Tel: 01946-



821732... Price: £5 including Code Name Nano game

#### Mandela Mandelbrot fractal generator

Oh no not enother mandelbrot generator! Yes it is but this one's worthy of a mention for one reason. It has a rather unique way of drawing mandelbrots, it seems to find the boundaries of colours and drew them first filling in the details later. Very pleasant to wetch it work rather than a 'brot filling the screen from the top down very slowly. Speaking of speed, Mandela is pretty ripply to boot. I noticed that If you have an EPU you ere better off choosing floating point calculations to shift up the spend stakes. Drawbacks are that it only seems to be interested in PAL screen modes. Productivity and everything also seems to have vanished though I seem to recall running this on a graphics board so extra modes do work just not the netive modes. Shama really Colour resolution up to 256 colours is catered for Mendele is compact, fast and interesting. Definitely worth a look

Available from: Seasoft Computing, Unit 3, Martella Enterprise Centre, Courtwich Lane, Littlehampton,

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# **Gallery**

There's no need to limit your artwork on your Amiga to a few line drawings. Here's a few who certainly haven't.



### Banging A Bia Drum



by Lavit Simon, France.

## Plasmafield



Johnny Devik, Norway.

## Quiet Night In



by Paul Hamilton, Devon.



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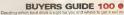
The Beauty Of Ch

All products are available in your local Amigo or through national mail-order-companies



International Distrib

# workshop



**DIRECTORY OPUS 101** Find out just how many Public Domain goodies there are out there that can help

IMAGE FX 102

Photo montage effects are on the menu in this month's look at what our

PROCALC 104 • Small business owners leap for joy, or any avid ProCalc users out there

PRODRAW 109 Some ideas for designing your own business cards, stationery or

your own business cause, seemen ProDraw
the like with a little help from ProDraw
HOWNS\*\*

**COMMS 110** Walcome to the return of an old levourite - our wired world column

**GRAPHICS MASTERCLASS 116** 

Deluxe Point V has finally enrived with a fresh new set of exclung

SUBSCRIPTIONS 120 • We've got three superb offers for you this issue 12 issues for the price of eight, the

FAQ 125 0 All you ever wanted to know about cover disk problems but were too scared to

ask in case anyone thought you were stupid





Profeser p 113



Cha

tribus

eq 73 5937 **Q&A MASTERCLASS 120**Feeling lazy? Yes, Well, now you can set your Amiga to sit eround waiting for one thint to finish before it starts another while you have lie down.

The Q+A team has a new member. Amiga dicherd Met Bettinson has joined our fresh faced teah ad Tony Horgan in the fight for Amiga technical knowledge.

**BACKCHAT 122** 

There's no end to the Amiga-related topics covered in this month's reader's letters; sex violence, astrology, it's ell here (well almost).

POINTS OF VIEW 130
Can Power Computing and M-tec carry GVP Ionward or is all hope lost? Our new technical bod poses the question



After meny promises, we are pleased to ennouncs the return of ths ever populsr Comms pagss, following on from last month's Internet feature. DPaint V has arrived with a tutorial to go with it, and we get our hands dirty with oms sxciting photo montage techniques in

imaga FX. All of thst, plus ths conclusion of

the Directory

Opus series,

end a thrss-

pags specisl

on ProCalc.

# **Buyers Guide**

Gat a hard drive that's just right for you. Hera's how to go about daciding which model suits your needs.

t's become a bit of a cempaign here to uige you to upgrade, end kit yourself out with a better system. It's the only way the market will grow end thus entice software developers to create brgger and batter programs

A classic example of hardware limitation is the size of programs. m particular gemes. Look at PC and Mec systems and games ere. in nearly all cases, herd drive Installable On the Amma, howev er, the number of people without haid drives forces developers to continue writing games that run solely off floopy disks. The result is that Arniga games need to be broken up into loads of small files, and masses of disk swopping is required when playing from creating games with levish graphics and sound, and slowly but surely Arnige games fell behind PC end Mac yersions. The answer is to upgrede your

system, fitting a hard drive But which one, there are so many advertised? Or it looks like that real terms there are only a few considerations you'll need to make to narrow down your The first considera-

tron you'll need to make Is where you went to fit the heid

drive. There are three possible places you can deposit the mechanism Possible choices being internally, hidden from view, externally bolted onte the side of the Amige, or externally in a self contained box henging off the back of your system,

#### Price range Internal units are the tidiest.

being completely self contained with your Amiga. They also leave PCMCIA pert free for things like RAM expensions and CD-ROM doves Internal models also have the lowest prices starting form Models that heng off the edge

of the Amida are connected vie the PCMCIA interface. These are the easiest to fit, but prevent you (although a hard drive with an optional CD drive vie the PCMCIA mterface will be released soon). The final type, units that heng

off the back are the most expansive (prices stert at around £250). hardest to fe but also the festest. These work by using an interface on an accelerator card plugged face provides a ceble which leads through the insides of the Amiga, end out a space on the back to a hard drive You'll also need to find a box and power supply for the external drive

If you're new to the Amia



A. The Apollo 1238/SCS1 2: an occelerator card systs a built in SCS1 option.

vou'll probably want auther o PCMCIA unit or to have a dealer fit an Internal und for you If you're en old hand at the Amiga or want the fustest dave possible go for an expansion card based model

#### Size counts The next consideration is size.

counts. Hard drives capacities are measured in Magabytes, the value of a hard drive usually being measured in the number of megabytes you got per pound, If money was no ergument the

answer would be simple go for the biggest capacity you can efford. You are bound to fill it up aventuelly and the bigger the capacity the further away this ad life to the

a passing interest to most of us, and so you'll need to decide how much you can efford and then pick the size according to this Remember that internal drives are the cheapest, so if you can't afford a lot it's probably better to go for these as you'll get a bigger drive for your money Let's interface

#### If you've come to a decision about the lest two questions, the

lest problem will enswer itself the type of interface the haid drive uses, PCMCIA and internal held drives invariably use IDE (Integrated Drive Electronics). These are low cost and give average performence, you also have the advantage that the Amige 1200 and 600 have IDE interfaces built in so you don't need to pay for a naw Interface - keeping

The alternative is SCSI (Small Computer Systems Interface)

Hard dives connected interfeces ere fester and you can elso connect up to saven of them at once, so they're better but cost more.

As plieady mentroned, if you want case of use and low price a matter of looking through the adverts for either en internal IDE hard driva (check out First Computer), or a PCMCIA hard drive using IDE - the obvious ones being the Overdrive Thesa ere available in capecities of up to about 500Mb.

If you went performance check out SCSI based systems. sion. These ere available in large capacities, going over 1Gigebyte in size, ie huge That's it for this month until next issue Andy Leaning

A few places to try First Computers 0113 231 9444 Gordon Harwood 01773 838781 HiSeft 01525 718181 Silica 0181 309 1111 Visaga Computera

0115 9444 501

# **Directory Upus**



To finish this series off we've rifled through some PD libraries to find lots of utilities that will help you get even more out of this excellent program.

angratulations, you've made it to the last of the Directory Opus tutonals it's been a long struggle but you've made it. By now you'll have more than a passing knowledge of Opus. Over the last seven or so months we've covered Opus how to run other programs, how to view and play I'les and how to pass arguments to other utilities. All of these fit neatly into the basic role of Directory Opus, as a central utility for controlling and manipulating files, a sort of NASA command centre for file operations on sprmA rupy

As a command centre it's meant to provide complete control of your Amiga, to harness its power. Yet so far the programs we've shown



A flory my 'we notes Dilipus to use LFA be documprum files Differentiate like DMS are also worth notices on



9444

A Bettrog up Opus to handle different progresses in margin. The

#### **BBS** configuration

If you've got a modern it's well worth have a trewl around the various Amiga BBS and Internet sites. There are bucket loads of user configurations and Arexx scripts floating around, they prova invaluable for learning more about Opus and if you were the sort of parson who nicks other people's ideas they're great for ripping off, although we'd never suggest you do that ..

working with Opus have been the basic AmigaDos utilities, like the standard text editor, Hardly suitable for getting the most out of the Amiga or anough to give you the tools for file management. So to finish the series off I've spent the last week or so looking at the vast number of PD and shareware utilities that can be used alongside our cover disk to help you get more out of it.

#### Let's hear it for Opus The first programs are those for playing sound

files. There are numerous different sound semple formats on the Armas and the basic player So a utility that can play lots of formats is a must. One I use, and can heartily recommend is Del/Tracker This is a PD program that, by following previous tutorials, can be used by Opus by simply clicking on a sound file But the Amiga is more than just a sound

system, its main strongth is in graphics, animatrons and pictures. Take a look at the cataloque of your favourite PD library and you'll fmd masses of utilities for displaying the vanous graphical file formats available on the Amiga Formats you'll want to handle ere JPEG, GIF, all IFF vanetres, and possibly PCX ipegAGA, it's the bee's knees. Also take a peak at ViewTak which handles messes of other file formats

#### It's a tight fit

Not really in the normal wewing or playing category of utility are compression tools. When



A Bolifrechm or a grant stilly to one along side Directory Span, Sot it on live you note those good you'll be able to play a lot more camples.

used alongside Opus these will allow you to uncompress or compress files stored m archives. My system for instance is set up to recognise LHA, DMS, and ZIP file types. The programs to handle all these formats are wide by available from PD libraries and we highly recommend you have a go at configuring your

The last option you might want to consider AmigaDos text editor I use EdWord and find it

And that's about it. The last thron worth ber of PD disks now appearing that are just packed with utilities and add-ons for Opus, in particular try out the DOpus Companion Those I've seen are well worth having and a must for serious users, your PD library should be able to supply them - if not call Active

And that brings us to the end of the Opus tutorials. If you've got any questions we can't, unfortunately answer them over the phone, but by all means drop a fine to Q8A at the usual address and we'll answer them through the pages of the magazine Andy Loaning

#### Risky business

Risky business:
It's opports as it thes. Over the last couple of weeks I'va comes across asceral people solling opined to Undigs Magazine cover elaks. This is without ecopion likes. This is without ecopion likes. The commenced software and decoping the solling of the commenced of the solling the solling the solling through through the solling through the solling through the solling t

# **Image FX**

Photo montage effects are yet another stunning feature offered by Image FX. Here's how it's done.

mage FX is excellent for creating photo montege type pictures, as you can see from the imeges on these pages In the days of 32 colour low resolution, this kind of thing was virtually impossible. However, Image FX can work in any of the Amlae's many screenmodes, using 24-bit colour and picture sizes limited only by the amount of free memory which means photographic quality results are easily within range. Bear in mind that eithough the program will run on as little as

2Mb of RAM, to produce the kind

of pictures here you'll need some

extra memory. This is mainly due

to the way the program converts all of its images into 24-bit colour (16 million colours), regardless of the number of colours in the original excture. This has the advantage of not limiting your pictures to the colour palettes of the onginal Images

When it comes to saving out your pictures you can decide to store them with fewer colours if you wish by rendering them and saving the rendered images rather than the 24-bit buffers

The two stap-by-step tutonels this month concentrate on combining parts of different images into a single picture. These techninues are used extensively in the



A Tractal Front in a 640x512 pixel 24-bit image. It's an anample of foldy basic image competition, placing the bookground of one stoogs with an

worlds of publishing and advertis-Ing. Take for example the billboard advert that shows a house sitting In the boot of a car Then there's the current edvert for Speedo swimwear. In which a woman is seen to be diving into the sea

alongside a trio of dolphins Neither of these pictures ere 'real' Both have been created by combining images from at least two different sources, proving that image composition can be a lot more subtle then laving frogs and flying fish on the moon! If you missed out on this amazing fully



A force of the freq on him seignaal state: valuat from a olip set CI-POM: As allowy group animals he has a protty carts, That's soluti we thought appropri



A This is the healty groupy fractal pattern, olso token from a why of CS-REM. If you don't have a CE time you should get one area, otherwess you'll miss out an abell like ther.



A. The drug picture near neignally 1162 x 800 people in size To some memory and metch like background, it's been scaled down in \$40 x \$12, which operates to a high real interfaced PAL screen.



tolon you relat to jamp hock to the organi mage







MXMANNA HE Park Balance Superior State St spore befor. There are note fore pictures in memory the ne trag preture and the tractal.



A. Jump back is the free picture noing the Sweep Bellers option, the Repoint node can seep be not in Risk Paraugh. Evaluat click on any drawing and to bring up the options and click on the Made botton.

















If you have a small business or ere still heving problems using ProCalc, check out the following pages thay should see you right.

s snyone Double Entry Example who's this 18th August 1995 ProCalc tutorial so Cash far will testrfy, our November cover 23rd August 1995 Cas program In fact it's more than capable 27th August 1995 Cash books for a small business Over the Sales 18th August 1995 25th August 1995 last few months we've shown how 28th August 199! many of ProCalc's £184 00

database in action and how to A Figure 4 de nameple of a double notry host. This is only no action to other the structure to a real mode case the tree sales of the book use its pre-

sentation tools. For expenenced than enough to get them up and running in a small office

functions work, its

Over the last few months we've had phone calls, Emeil.

18th August 1991 Wager

faxes and letters from new users esking how to set up ProCelo to hendle ledgers and books. Unfortunately this really requires en understanding of how to handle books and accounts first.

which is a huge subject on its own, and The Bonesi Tree we certainly don't have space to cover it here £70.85 What we cen do how 18th August 1895 Cash Sale 6129 00 23rd August 1895 Rent £700 00 ever is to show you business accounting

25th August 1996 Cash Sale 27th August 1995 | Material 28th August 1995 Cash Sale paper work is done. allowing you to build A Figure 8 the most busic love of book bosping. This is usoloes no mo-thing other than a haper record of relatin come is not what's been apent. like to know more

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August					
Carried Down		£300 00			_
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25th August 1995	Cosh Sale	20 00	23rd August 1896	Rent	£200 00
20th August 1995	Cash Sale	652 00	27th August 1995	Meterial	£50 21
	Salence	£162.90		-	
	-				-

A Figure 2 mare pencifical recording hearing up what has been appet real other has come in an one of the proups. Using ProColo wa can also quartity find of the company hos made or last manay.

about accounts and the mechanics of ledgers etc, take a look in your local library, or enquire at a local higher education establish about business courses

Basic business linancial recording starts with a log of all transactions. At its simplest this looks something like that in figure 1. This shows what's come in end what's gone out of the business, when and how

However, it's not very helpful. t doesn't tell us envihing about the state of the company (is it making or losing money?) other than a lot of activity is taking place. We need a system that will tell us exectly how much money is being made or lost and where it's going

#### Made in Italy Thankfully someone else h done the hard work for us and froured out how this can be done Luca Paciolia, an Italian, described

in 1494 a system of book keeping used by Italian traders Others extended and built on this system over the years until the present day. The current accounting system of double

Outline-arama

When working on business projects there will invert-ably be occasions when you have laformation in a apreadsheat that you don't want printed, or hidden for a short period of time. Imagina for instance you nd a databens of pro make a very quick price list if you could somehow hide the cost Information and just print out the descr tian and sale price. Or if you could have an invoic that in the spreadsheat show not just product price but your margin, ageis, there's obviously no way you'd want your customare seeing this data, so a way of tamporarily hiding it when printing it would be useful.

This is exactly what the autimea menu is for. Toka e look at the screenshot is figure A. It shows a fairly typical business sprand-sheet consisting of product shoot consisting of product name, codes, costs, product extegory and prices. If you wanted to make a price list you'd only want to show names, codes and prices, by highlighting the costs and product extenory columns product category columns and thes clicking on Outline/Hide/Columns we can then remove this infor-

mation - try type this spreadsheet in, hiding the columns and printing it. You'll also notice that ou spreadsheet contains further rts which you'll find usei, kut agein you won't ant customere seeing.

Under each product row are further rows showing the component parts that make up that product, su information is vital so you downs. Selecting three

entry book keeping is based onthis ancient but workable, system This shouldn't be too surprising as Luce Pacilla and his chums had the same requirements as modem business people

The current day system is a very complex subject (which is why env of you who have had contect with an accountent will have had a hefty bill) but managing and recording things through programs like ProCale can help

on Outline/ Hide/Rows will again hide this information, but this time removing To get back the information you't hidden select the hidden columns

Outlines/ Reveal/Rows But Outlines can do still more. Take a took the screen shot in figure S. This shows a fairly standard staff record form, Using this and outlines we can hide all but the n

me however instead of

olumes select columns A,B, ad C and click on letlines/Create/Column/ Left Lihe the hide option this from viow, but leaves the starting column visible. The six antage is that using this approach PraCate keeps and internal reference of the bidden data and allows you to quichly turn the display of m on or off, instead of forcing you to keep revealing and hiding them. Try it out by clicking on the bolded heading column – notice how



10 the 10 to 10 to

the previously hidden row now reappear. You can so the some with Rows by using Outlines/Create/ Row/Top

Another use for Outlines is to use ProCalc as en os processor - frequent-ound in the more pow-When creeting a report or document it often helps when plenning it to form a structure before you stert writing. This way when writing it you have a cleer plen and won't forget something white working on another pert.

Take this panel for stance. If I'd started out scribing outknes by the so I got to the end I may well have forgotten to mo-tion that Outlines can be used as an idea's processor. By using Outlines however i can flesh out the structure

> on is written, To this use, type you heedings into umne gai umn A wou heve say 'Outlines

check each sec-

**Creating Templates** 

If you have a regular tob to carry out in ProCala, an invoice for example, you can create a skeleton of formula and spreadsheet layouts that you can quickly drop information into

To make a template create the spreadsheet model that you'll use on a regular basis. Now strip out all the information that will change

from month to month, delete it You'll notice that when doing this cells containing references will change to show Ermor'. This is simply because there's no longer any data for them to work on, don't Now save this spreadsheet under a name, 'invoice.template' for

example in future all you need do is load the template and quickly key in fresh data and hey presto yeu've done the work in half

Don't forget however to save the updated spreadsheets under a different name otherwise you'll overwrite the template name and have to cleate it again

theory at least, giving bet-ter, clearer and more structured decuments.

the smaller amount is taken away result out under the column that had the smallest total to start with This gives us a vital piece ef information has the company made or lost money If the figure is on the debit side the organisation is in good shape, hopefully yours will be.

The screenshot in figure 3 this I've used the IF function to find out which side to put the result in, the other side is displayed as zero. Each side has this fermula, although remember that you'll need to change the each side

#### And it still gets better!

But things are still not quite good enough We need a way of finding out where the money is going Hew much for example, is spent on wages, telaphones, electricity, transport insurance etc For this we need something more involved. Take a look at figure 4. Notice how once again we've got the double entry sys tem, but this time it's broken income Wages, materials, teleare all tracked. To de this in ProCalc requires very little formu le use, in fact just the Sum operation to total the two sides up

The rest is down to layout. In this exemple I've got a sames of rows grouped under central headings. Each group of

make it much less expensiva - the more accurate records you have the less time it will take an accountent to sort out your dealings. The

illustration in figure 2 shows how the transactions are split up into two types credit and debit. Debit is money owed to ai

coming into the company credit is money owed or paid by the

trolessional att V. B. by Michal Judorovic. 1990 bold Disk Inc. -:F(SUN(C5:C6>>SUN(D5:D6>,SUN(C5:C6)-SUN(D5:D6>,0) ZHEP A HER WAS TO SHEET BY None D. E. A. Figure 3: thin is the formula need to show whether a profit or late here been surds on our book integing apmeditions

#### Invoices

Nith its good text hondling bilities *ProCalc* makes no inter Proces makes in sel system for creating voices. Invoices ere the andard means by which e business 'bille' mother ling them how much is temp them how made is owned for goods or services. All invoices should contein saveral basic pieces of infor-metion. Firstly your compar nome and address, this can be on letter head atthough shaw can be printed by

the On letter head sithough they can be printed by 
ProCale as part of the invoice. 
If needed, if you are registered for VAT, your VAT number abseld rikes he shown. 
Next is the company to which the invoice is being sent, the creditor. If you had a database of customers (you had a company to be a set to be company to the company to be a set to be company to the company to be a set to be company to the compa

Next is the company to me the company to the company t

Invoice foot Forman them; and the surprise years in you might also want to offer a discount. The surbride of imprinting the surprise from company to company. Some organizations show the discounts in a new column for each own of the shoots, while others show the discount code on an entire new row completally—coming star at any product control of the shoots of the s

		_
INVOICE		The Bonsa
To	Mr Glover 18 Schonfield Street Lauper London	I'll Aspen Co Suffolk Clear Leaford BG3 IZX
Involce No Date Customer Ac	R10234 18th August 1994 GL2342	
Quentity	Gescription Chinese Elm Seriese	Amount £40 £70
		E110 F10 E120

and Terms:30 Days Not from Days of Invotes

invisionvers a different type of Thase are split vertically into six columns the date, description and amount of putgoings and the date, description and amount of bottom of each group we total the amount You can use different type faces and font effects (bold etc) to make the headings stand put making it even more readable

make before any ecountents out there write in and complain, is the two sides should metch up. with spending on outgoing accounts metched by incoming accounts. The examples on these pages, however, are purely to demonstrate the structure of double entry books, and how ProCelc cen be used to handle them, it's not a real would example, you don't need to tell us!

#### Easier to see From the information so far pro-

data to gen further information use ProCalc's graph functions to show visually where the company money goes. A typical graph is shown at the bottom of these pages, see how much easier it is to interpret the picture form over the table form

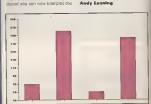
#### Recalculation times Neturally the bigger the company gets the more complax the

soreadsheet can get, and in some cases recalculation times will stert to show, particularly on

older Amiga systems If you don't want to go through slow recalc times when ever you make a change or enter in a figure, you can get around the problem by using ProCale's Calculate Setting. Pressing Amiga and 9, or click on the Options, Preferences menu to try it out if you change the Calculate setting to off end then click on continue ProCalc won't recalculate the sums and other formula until you click on the manual recelc icon This, you may remember is the small equals sign in the top left hand corner of the ProCale window. So there you have it, the basic

spreadsheet models for business. There are plenty of others you can elso create, credit notes purchase orders atc These and the besic models we've shown here, it's just a matter of using your imagination and utilising ProCalc's amezing text

formatting capabilities That's it for this month, next month we'll bring the ProCalc tutonals to a close with a look at the progrems Mecro and Arexx capabilities. See you then



△ Daing ProCells to give us paper minemation from the double natry books. This shows select the various be owner are gover.

# PCGAMES<sub>®</sub>

Yes-s-s-s!!! It's twel At long, long last, Lords Of Justice Milke Singleton's 90s update of the old Spectrum classic, is here and the only place you'll find an exclusion in-depth review of it is in this month's issue of PCGAMES!

OUT

# Lords Of Midnight



APRIL 1985 . OR THE DISKS MovieSetter clip ort ned File International Secret slowe PLUS from

Mayer Setter Houseal.

FEATURE Asimatine mode 4019

INSIDE Person CO-ROM, PD Specied, ATR.

Tarba Traz, Bawu Patrol, Soper Lougen Munager, Baldine proview. JULY 1994

JULY 1994

ON THI BISSS: 68 Newto, ples playable
dense of Elimenic and Yolkells.

\*IEATURE: Representing Your Amage
MISSO: DRY Par Card, Municips, Peoper
and BiSoft Reale 2, Beauting, Yelhallo,

funcia and a first look at Scenery AUGUST 1994 • ON THE DISKS Art School or

Turbo, pine o nism Cisloso Point S. modern is Locase Marph, lew cost moderns, laber 3, He The Ball, Putty Squad and Rick Off 3

**BEPTEMBER 1984** OR THE DESKS Downer's 2. Monic life Converter, plan a door of The Clas.
 FEATURE, 3D Special.

MSIDE Brilliance 2. Imagina 3, Thomas
 Park, Verrorse, Kid Choos and Greamweb

OCTOBER 1994 ON THE DISKS Offsint h dems, Residence Effects Benerator 1.5, Sternogram 3H

ecture meher and Dragoustone dram. FEATURE: Starpps special
 IKSIDE: Quar SR politivare and Rardware products, Buff 'n' Tomble, Litil Divil. stred partews

NOVEMBER 1994 • 08 THE BISKS. ProCate v2 fell program. Videg Erocker 2, Football Glory demo. · FEATURE. 181 amazing tips!



MAY 1995 . DB THE DISBS ProDraw 3 (off non ACA Amigan), OctoMED I and Balders Banna

· FEATURE: Too printers reviewed, exted end recommended

NSTOE, ECTS report, Bratal Previow, DPaint,
Parament Paret, Photogeness and Brilliness
companel, eight CD-BOMS reviewed.

· BEVIIWID: Brardier, Babinson's Bequient. and Soor Stardout.

DECEMBER 1594 OB THE DISKS X-Cod Beauty, Christmon
Throng Park dame and Super Stardent lea-

and lavel dema o FEATURE. Word Processing gold

· REVIEWED: Roadelo H482 Spalnek, Boss Station, Powerstree, Hostal Kombat 2. JANUARY 1995 ON THE DISOS

a property l or for his and profit E. Ripo of the Behvtz, Sansible World of Socuer, Bandfell CD32, Banenth o

Stool Sky 6832 FEBRUARY 19 O DO THE DIS

ma Faster for of Amiga v PC a Mac. Shadow

fighter, Kick Bff 3, Lummange MI, MRII players puide.

**MARCH 1995** OB THE DISKS: Medeler 30, Fasy Ludger dome. Velhalla Before the Wm denn.

FEATURE: Rock on your to fine order to you have been to brillion t mound not visite to you have been brillions mound not visite.

\*IBSING CD-BOM carrieves, Francisc Z. Mirrard Accelerator, Frontier 2, Mondays, Skeleton Krum, Speni Footy Langue.

JUNE 1995 ON THE DISKS Image FX 1 B (all Assigns with 2 Hk), Discusses Soccer Massager dome o IEATURE ferring processing - we show you now it's depat

IKSIDE: RAM speed test: Birnard 123B III.
 Sares Apallo, Detamod II reviewed, Primal Rage, Sociatio Gell praviewed.



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OB THE DISSS Adverage 2.0. Perceivana v2.1.
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EENTRUE: Step by usus panide to the Host.
PHISTOR Test report from Germanny on Sacron.
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### **ProDraw**

Creating twisty, bendy designs with words is simple with ProDraw. Let us show you how it'e done.

> MAGAZINE & Day the East trei to create many tast. Belice the Aspect Rate



A Draw a circle, select it and the test and thus choose the With Carve hom the Special most.

text or the circle, until both are aligned properly You can also try selecting Scale Text to Fit in the Align Text With A Curve requester

Once you have your circular text, delete the circle (not the text). We are now going to make a curved line and align some text to it Click on the Pen tool (next to the Text tool) and stemp it down on the page by clicking the left mouse button once. Now hold the Alt key down and drag out a straight line. When the line is about aix inches long, click the left. mouse button to finish the line and press Esc to abort the Pen tool Click on the Hook tool and place a point in

the middle of the line. You do this by clicking once on the line with the left mouse button. Now click on the point you have just edded and you'll notice two hollow boxes on either side of the point. Grab the right-hand hollow box and pull it up the page. Notice how the line changes shape Continue playing with this

At the the Pan tool to show a straight line. Add a point in the modifie of the fine university the Heat (and and Man grait the small builders haunc extince note of the modifie point at after the shape of the line.

Total Particular Parti AND RESTRICT OF THE PROPERTY O A firm you've certified the path you words are group to be



until you have a curvy line you're happy with The end points of the line can also be moved Type some text onto the page and then eligh

it with the curve in the same way we did the circle. Once you have what you want, delete the line and place the curved text over the top of the previous image, making the two pieces of text different colours. Spruce up the logo by placing some coloured boxes behind it, some more text in the centre or even put some photographs behind it like we did last month

### That little bit extra Finally, let s add one of ProDraw's special

effects. A shadow would be nice. Select the text, press the TAB key end then move the duplicate into the required position. Select that original text and choose Bring to Front from the Object menu to complete the effect Larry Hickmott

usiness cards, wedding invitations headed stationery and the like can set you back a pretty penny Now, you can have a go at creating your for free, with ProDraw - our May cover disk. Try creating your own logo once you've followed this month's tutonel on how to create curly, twirly effects with words. It's easy once you know how

To begin, press Left Amiga-W to turn on Wireframe mode, which will speed up the program as we go through each step Another way to turn Wijeliame mode on is by choos-Ing it from the Preferences menu, making sure it has a tick next to it to show it's selected Now to create some circular text. Click on

the Taxt tool and choose your font and a size for your text. I've chosen Tnumvirate and 36 point I've also altered the Aspect Ratio text gadget so that it reads 200%. This will make the text twice as wide as it is high. Once these attributes are set, click OK, stemp the text tool on the page and type out your text Next click on the Circle tool, click once on the page, hold down the left Alt key and draw a cacle. To finish the circle, click the left mouse a second tima. If you make a mistake you can press Shift-Delete and do it again.

### Circular text

13.6

With the circle and text on the page, click once on the text and then while holding down the Shift key, click also on the edge of the dilcle to select it. Choose the Align Text With A Curve tool from the Special menu or by using the keyboard shortcut Right-Amige 1. Make sure Flysh end Rotate Letters are salected Click OK and the text will be aligned with the curve. If it looks a mess, grass the Esc key and use the Size tool to elter the size of either your

### Manual updata

Since Proluming was receased on the Mey US CU Amige Magazina cover disk, we've had numerous anquiries shout menuals, which at the time of writing, were somewhere is the mid-Atlantic on routs to the UK. These menuals are the original Gold Disk ones and cover the program in depth. For e free information pack about ProDraw manuels and other disks containing more fonts, clip art and attrast for ProDraw, write to LH Publishing, 13 Gelrioch Ave, Bletchlay MKZ 3DH.

### Wired World

Never mind the beud rates ... here's the first of a new series on ell you need to know about the internet.

he telephone was the wonder invention that linked the far comers of the world Thanks to it Kennedy and Kruschev narrowly averted a nuclear catastrophe with a couple of long distance netters. There was one drawback tor the average user though, enormous telephone bills. Now, through the internet people in Amenda can talk to Russiens or the rest of the world for the price of a local call it's more than a place to chet, though, you can download lots of games and utilities, read intermation on just about any topic and lots lots more

Last month's feature went e long way to explains terms such BBs. Internet, Fidonet, E-mail, surfing and baud rates. Ovar the coming months this tutorial will take an even more indeath look at the Net and take you through the whole process from getting started to starting up on your own.

### **Getting** wired

To get on line you need a modern This little flashing box that shovels data over the public telaphone lines comes in many shapes and guises though to be honest most are identical in operation. Only that shapes and speeds vary radically through various models and brands Brand nemes like Supre, USR and Haves have gained



A Salare interpot the only way you could counted anywe on the other side of the world was by post or on aspectancy plant call. See you clot to anywe anywhere for the price of a local cell

tayour as being known to be reliable However CU Amiga Magezine has known strange no name el cheago moderns to behave taultlessly. The key thing is that, if you are buying e modern make sure you can bring it back if it doesn't do want you want Rather than delving into the

innermost workings of a modern, there is some rather bosic edvica we can offer Buy the fastest modem you can afford, Buy a minimum of a 14400 baud (bits per second) modem or preferably

a 28800 modern, prices of which

two. A faster modern will cost more instally but you'll have cheaper phone bills as a result. Buying a modern without at least Class 2 fex capebility mey

also lead to onef later, Obwously faxing from your Amiga is e very handy thing to do. Note that there's very little shareware avadable that handles the Class 1 fex system. Moderns capable of only Class 1 faxing have very basic functions, forcing the software to do most of the work The Supra 144LC is particularly good valua boot Even with the addition of commercial fax software to hendia its Class 1 only fax capability. it's still cheaper than meny noname brands

### Free software

If you buy your modern from an Amiga dealer, you'll probably get a sherewere comms package thrown in Otherwise, it's time to call up your favounte PD house and get yourself something like NComm We recommend this in particular since it's very easy to set-up and has most of the functions you'll need. If you are buying from a non-Amiga specific dealer you should check that a 25-to-25 pin XT senal lead is supplied (PCs use 25 to 9)

### A simple set up Most modems come out of the

box in roughly the correct configuretion. Just set your term package up to 8 data bits, no panty, hardware or RTS/CTS handsheking and the important bit: select a baud rate of 38400 A common mistake is to choose the same rate as the maximum cemer speed of the modern, if your modern is a 14400 unit, this is not the speed that you would set up in your terminal software Many moderns have in built data compression features, so although the two moderns could be sending data to each other et 28800 bits per second, this data is in compressed form. When it reaches the destination modern. the data is decompressed, and through the senal port, in order to get all of the decompressed data through the sarial port tast anough, the software needs to be ninning at e baud rete in excess of 28800 in order to keep up.

Note that on a 68000 CPUbased Amige, retes higher than 38400 ara unreliable mainly due to the Amiga's woefully inadequate single byte buffer However, with a 28800 modem and an Amips with a 68020 or faster CPU, a rate of 67600 could be used

Another common mistake is to try to set up this sarial rate from the Workbench senal preis 'We've vat to see a terminal package that uses the Workbench settings. which are limited to 31200.

### **Dialling out** We should now have a modern

and some terminal software connecting us to the telephone network You can make sure everything is working properly by asking your modern to give you a dump of its internal memory la load whatever it has in it's memory to your Arrige, if you have a USR

### Modems: prices and suppliers

Aceex v32.bis 14400 Class 1 Fex £169.00 Cinus 2 Fax £229.00 Aceex v34 26800

Power Computing 01234-273000

£169.95 USR Sportster v32.bis 14400 £269.95 USR Sportster v34 28800

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What do you mean by that?

Baud: The transmission spend of a moditing given in bits par second. Oldel by a light to convert to the second oldel by a light to convert to the second oldel by a light to convert to the second oldel by a light to convert to the second oldel by a light to convert to the second oldel by a light to convert to the second older by a light to the

The page is the current officer standard but is don't coll in performance to VEC (very fast class).

•V34+/V34.bis: Two brand now standards. V34+ is 33,600 baud sed V34.bis is 35,400. Currently these core rare, but they will be available soos. Only the USR Courier can be upgraded to those standards.

by eoftware.

HST: High Speed Transfer, An old USR standard for 14,400 set 18,800 baud. Rare new though it atill exists, inferior to other standards.

BBS: Sulletin Soard System. Asy dial up service accessed electronically vin a terminal package. Archivers: Utilities that compress a number of files into a alogic file that is smaller than the original total

file siza

resisted the result of a protocol used white transfer-ring files. Every SBS and terminal packages should sup-port this. We highly recommand you obtampt to use this rother than the other older and shows protocols -AmTICP. The Internet arriverse for the Amigo. The Int-est versions are commercial but v3.0 is freely distrib-utable and work perfectly.



### A. Thus ... ar .. five offy face you see have in a system o way of suscessing he o on lies.

modern, just type 'AT&V' or 'ATi6' After hitting return you should get e acreen full of numbers. Note down these numbers, and refer to your modern's minual. You can then make adjustments to the modem setup according the manual's instructions

At last you're ready to dial a bulletin board. The standard method of drafting e BBS or any other phone-line connection is to type

ATDT number

The word 'number' in the abova line would be replaced with the phone number of the raquired BBS

The modern will dial the numbei end attempt to negotiate the highest protocol (speed) that s common between your modern and the modern you ere dialling, Aftai a bit of whistling and scraeching, you should see the word "connect" followed by a

number. The number is the speed at which the modern has connectsome text from their front-end mailing software. Hitting escape a couple of times will get you pest this to the universal log-in prompt, If you've never used a BBS bafore, don't be scaled. Just read the instructions which will point you in the right direction, All BBSs about yoursalf in order that the SysOp (person that runs the BBS) is satisfied that you are a bone fida user and not e apotty hacker bent on triggering World Wei III.

### **BBS** surfing Most bulletin boards work in a

similar fashion. File and message sections are distinctly separate and ere selected from the main menu The style of the ANSI graphics (coloured IBM characters) will certainly vary and so will the type and quantity of files on-line Too many users miss tha single most interesting aspact of BBSs the messaga section. Some of the larger or more complex BBSs can alse give you E-mail access to the Internet and an even Internet address of your own

Whether they offer internet access or not, you can usually access several networks such as Fidonet and the excellent Amiganet. Thesa ara like mini Internets but are connected solely through the telephone system (the Internet has its own communical tion lines) The BBSs on

the Fidones and Amigenet networks are updated every day or so, which leads to a ganerally slower spread of information than you gat across the Internet (which is always active)

CU Amige Magazine highly recommends both types of network - you don't have to decide to go for one or the other Often BBSs ere a good meeting place for like minded people in your local area, where as the Internet tends to be more global. Accessing these local networks is best done with a dedicated communications package called a 'mailer" that autometically swops the mail with the BBS without ever logging on. Likewise the mail is read 'off-line' in a separate program once it has been downloaded This maans you can grab what you want, and then read through it all without incuming e

If you get stuck you can always 'page' the SysOp for a real-time chal to clerify any confusion

### Downloading

Now that you can diel up builetin boards, you can download stacks up to date with all the latest releases in their perticular field Some specialisa, while others offer a wide lange of software This software and data is almost elways stored in compressed form (archived), in older to save



A hospections of make the most important than do nt to key a minimum of 15500 hand hits in key year plants belief dware.

space on the board's storage systems, and to reduce downloading times DMS, LHA and LZX are the most common compression methods, and in order to decompress the archives you'll need one or preferably ell of these utilities They re all evaleble from just ebout any BBS. If you can't find them in any listings, just ask someone - every other comms user will have a copy

If you want some more edyanced terminal softwere than NEornin, try Tarm You'll need a bit of extra memory to run it, as it's a fair bit bigger than NComm

### Direct link

If you would prefer to hook directly into the Internet then AmiTCP is the probably best terminal packege you could get. The best option to get AmITCP is to sign up with Demon Internet Services so you can grab AMITCP DIS95 which is a new archive of AmiTCP with an installer geered for Demon. Once you've got it run AmiTCP, dial up to an Internet provider and your Arniga is now part of the Internet Mot Bettingen

### Essential Amiga BBSs

e Derheide 8BS. Thornton Heath, \$yeOp Rob Dale,

Phoee: 01B1-7719100 (14400 baud) & Bechveni BBS, North Harrow, SyaOp Aethoey Brice,

Phona: 0181-4242005 (14400 baud) Active Intl BBS, Hackney, SysOp Jim Handry,

Phona: 01B1-9BB5964 (2BB00 baud)

Creations BBS. Croydon, SysOp Mat Bettinson, (who?) Phona: 0181-B659BB7 (28800 baud)

· FroatFree BBS. Sleithweite, SyaOp Oava Naylor, Phana: 01484-2449B25 (2BB00 baud) a Tha Motaf. Nunestoe, SyeOp Nigel Bataa,

Phone: 01203-372005 (28800 haud) · Heart of Lothize, East Lothlan. Sysop Andraw Cowds, Phone: 01B20-826004 (2BB00 baud)

Spe..5B. Lewee, Bysop Alax May, Phone: 01273-474352 (28B00 baud)

a Mostly Hermiese, SyaOp Lee Sandars, Phoee: 01705-B14824 (28800 baud) a A-Ceetrel, SysOp Gavin Hemil, Phone: 0232-710880 (14400 baud)

batwege 2:30 sed 3:30am

All the above are Amiga BBSs connexted to Fidoset and Amigeest end ere 23 hour systems. Don't cell them







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## Graphics IV

### **Deluxe Paint V**

great painting can become a draedful one if the background texture in wrong Thenkfully, one of Deluxe Paint V's best

naw features is its Texture system. Through some crafty programming EA have based their textures on normal IFF brushes. The program ties these so that they form en 'undarley to the whole screen. The texture patterns have elso been carefully designed to avoid any jaming joins, you get a nice smooth continuous textured surface on which to paint or paste brush images

Textures are loaded in via the Effects menu turning the process on You can turn it off from the same menu when you want to return to painting in normal mode

To get the most from the texture offact, you should match the palettes of the texture brush to the wey to do this is to load in your



picture, then load in your texture You can then use the Remap option to remap the calours of the brish to use those from the pic-

Toyture houstes can be any size, memory permitting and you can design and save your own textures as brushes or use brushes from other programs if you're making your own, make sura they're square or rectangular as OPrint will tils them

Let's take e look a what you can do with these new textures

The veiling of a beauty
The British chome star Joan Collins is here to demonstrate another aspect at the toxture feature - the fact you can use it as a fill option and after its translucioner, in this example we are using these feature to produce, emonget other which the high producing and produces.

Deluxe Paint V has finally arrived bringing with it a selection of lush new textures. We take a look.

e are using these resture to growers, emongs town ings, the operance of a veil. First, the image was painted without texture mode on, on Burlap (a thick, stringy material similar to sach-cloth) as loaded as the texture. This does not effect the image

was loaded at the SECURY. This upone nor sure which is already on screez, only subsequent actions.

Using the freehand filled polypon tool, with purple as the main colour end translucency set to 50% if drew out one of those fashionable Dynasty-type veils around the eyes.

Eval in 256 colour mode, the aubitary of the effect in quite the set of the set of the colour mode.



marked, the Burla giving a fine sea-through a ffect texture and colou I added some embroidered artiats to the veil by ing the round tom brush. ally, the back-and is made a purple and the Burlop texture, with

### The writing's on the wall

To cepture the feel of a live Hendax performance, I wanted something brash and law, and decided on a graffithtype image on a wall There wasn't a suitable texture, so I set about building one . .

All you really need to do is draw three backs, and cut two of them in half, to create a texture which DPaint can understand. Fill in the gaps between the bricks with white 'cement' lines. When the brushes are tiled, they create a whole wall

Having pasted down the main image I decided to add some decay by taking out a few and books, and the spray-paint effect



began on the spare page, where I handdrew the lettening using the large round custom brush, then clipped it out and pasted it on the well whilst Textura was still active, to allow through I actually painted the text down twice, because the first time it was top light

### Hot eir

Here you can see how the Textures feature is accessed from the Effect menu The inset picture shows the original image

It's a good idee to test out textures on small areas using the spare screen, as the process can take some time, end you

can't intairupt it once it has started

The texture used here is ManMade-TuckNRoll, which gives the Image a 'plumpy cushiony' look. You should see from the original that the textured image has had its colours dimmed - as if Translucency was on. Here DPaint is combining the underlying texture brush with the main Image and working out the bast palette So be warned - what you expect is not always what you get.



### Make your own brushes

When you're happy about mak ing your own textures, have a ogat creating a text brush texture Here I designed a brush using

text of verious alzes, then loaded it as a texture. As you can see it works rather well, allowing the where the letters are This, for example, would come in handy if logo or title screen. However, be careful of the large portions between the lines of text and the



has been picked up; if you have too much blenkness in your own texture brush, the picture could become unintelligible

### Flag waving

beequent ections.

ext I loaded in yet sooth
texture (Stucco) then I
extend down the text ich I'd prepared on the

re screes, number that the spore see will also use texture may seed to keep turning it off for rough work.



### You've gotta draw the line

For our last example showing alf the new Texture made here's an illustration using simple black and white line art





Cindy Crawford is the subject of this next experiment. This time I've used Embossed-Ham for the texture, which gives a 3D look to the illustration The effect is similar to either ponting on silk or a rainstreaks The brush used for the texture has been designed to avoid obvious pattern repetition. which can be distracting And let's face it who wants to be distrected from looking at a

drawing painted down with ture it gives it a nice, rcy feel and the appearance of being printed on crumpled paper

The right-hand image is lar but has been changed user some of DPaint's now feature

into the space page. Swecher a to the main screen, the purpose texture was achieved by drawing out a filled rectangle on a translucency active and dark purple the colour.

Turning off translucency. mode I picked up the spare image with black as the back ground colour, this gave me at tha blocks of white which actually make up the insides of the picture.

I painted this down on too of the purple rectengle then switched to the spare screen and picked up just the black portion of the draw

ing by selecting I now positioned the outline on the main way as to give a skrer fook like a rather fency flocked

wellpeper design Peter Lee



### asterciass

Stop sitting around until the early hours waiting for one program to finish before you can start enother. Go to bed, get your Amiga to take care of it for you, then call you to let you know when it's finished.



ecently I found myself It had been a long busy day and it was getting late I wented to go home

but I still had some work to do I was re-rendenng a large imagina enimation which I then wanted to combine into an Anim7 file So to avoid sitting around for a few hours waiting on Frad/the batch processing frame editor supplied with ADPro) to finish I needed to think of wey to make my Amiga wart until it had finished making 24-bit frames into HAMB frames before MeksAnim7 (comes with Viewtek) could process it into

Although the Amige is multitasking. I couldn't start the MakeAnim7 going because it needed to use the files which wouldn't exist until the AdPro process was complete Then I remembered the

AmigeDDS weit' command West does exactly what you would expect it to nothing it simply sits there doing nothing (not westing processor power) until it gets bored Therefore you can use it to



as in the top Shell arindow. Not has been used in pet the window to shoop for treasly mission. In the lower Shall render, we can droven in discusse the precess as still reads up the Bfull holors time

delay a process for starting. It's simple to put into operation; Open a Shell and enter.

weit 10 secs

and you'll see that wait well er wests. You can elso use the following

weit 2 min

for waiting longer times

Therefore, you could write a script which looked like the following. Please remember a script Is nothing more complicated then a text file, created with ED or some other text editor, so don't warry it's simple when you know how

wait 120 min makeanim7 hd3:house.anim

Now with this script seved to disk under the name "Zzz" I could

doe't move it for a bit thay

fell seleep. Bit like me le

that respect.

screes display.

onen a shell and enter: sverute Zzz

and then nip home for tea. When two hours had pessed the script would move unto the MakeAnim7 cart, by which time AdPra would

You can also ask wait to keep waiting until a specific time. For example, enter "date" into the shell and make a note of the time Quickly add e few seconds

wait until 16:12

or whatever the time is. The process will freeze until the time passes Note that this isn't stertlingly accurate, but it is certainly

good enough for simply delaying the process. Call me, please

However, I get a bit wery about leaving the Armgs working ell night on something important. If something goes wrong. I would like to know about it. But as my office is several miles eway from my house, I didn't went to keep driving back to the office all month to look through the window

Well, thanks to modern technology I didn't have to My Amige happens to have a modern attached to it, and by using Affect to control a comms program, I could write a program to dial up

my home number You need to be careful debugthe first things to check is that it will dial the right number every single time. The second thing is to check that the modern will be correctly disconnected without leaving the line off the hook.

The set-up was something like this, an AmigaDOS script waits until e certain time. It then runs as Affexor program. The Affexor program does a little work to calculate the lest Image rendered, or

### A Little Something To Play Around With ... pointer about and if you

If you ever gut bored using your Amige for mundese teske you'll be pleased to



A The new supressed Meckhouch includes a design pair of peopers to keep track of where you are pointing and ocologically second bits of stocky

know that there ere lots of little edd-on toys you can pley with. These cen all rue to the beckground, quietly

multiteehing away untif you get reelly fed up with them end decide to nuhe them. For exemple, le the acress shot below you can see that most usofel utility, Eyes, Eyes draws some syse on the ecreen. They

follow your

Secondly we have Stichiti Rether thee cover your monitor/ desk/worhmetee with little bits of coloured paper, you can use this progrem to meietais little notes which float around the screee. It is only worth using this program If you have a large

> In fact, if you have a lot of sotes and several pairs of eyes watchies you will appn rue out of space to actually do any work.



how much free disk space is free: something that lets me know all is OK It then uses the ARex port on the terminal emulator program Term and instructs it also checks that the line doesn't

### Listening to his master's voice

This ie where things can start to go wrong however In my case. I

talking to ma at V34 28,800 bps nect some form of speech synthesiser, perhaps using the old Workbench 1 3 Amiga SAY command. This would enable the Amiga to ring ring me up at 10 "Hello mester, last frama rendered was 1040" It could elso nng me up first thing in the moming and tell me to get out of bed

However, connecting a speed tricky So I devised e different system, Instead the modern

dialled my number and let it nng only once This let me know that the next call would be from the computer and that I shouldn't enswer it. The program then redialled me, and depending on the number of rings informed me of the current status. Three rings meant everything is OK, sox meant something is wrong. Get the ides. The script I used to diel

up my number looked like this (the -| symbol denotes return) /\* Dial me upl \*/J

OPTIONS RESULTS. Say "Wake up modem ... " send 'atz\r\n'. wait 'OK'

say "Dialing..." J aend "atdt<my number hear>\r\*,J CLEAR wait. NAME 'BUSY'J

ADDITEN TO wait NAME wastJ IF rc -= 0 THEN SAY 'no text was received from

asy "I know the telephone

ia ringing or busy".J

say "The line is busy, so exit. "J

then say "I know it is ringing.. " J /\* We can tell if the call is answered only if the RINGING signal doss not happen again with a few seconds... \*/↓ max\_rings = 3 ; ringa=0,1 do while (xc=0 & rings-max\_rings).J TIMEOUT SEC 54

CLEAR wait-J ADDITEM TO wait NAME 'RINGING', waitd SAY 'Still ringing..'-

ringa=ringa+1 ; aay rc ; say result / may ringsendJ if rings-max\_ringa then asy "Too long... no-one ie at home!" J eay "I'm hanging up..." exital end.J

/\*Hurrah! At last|\*/J SAY "The telephone has been answered!".J delay 1J may "I'm talking to ne..",

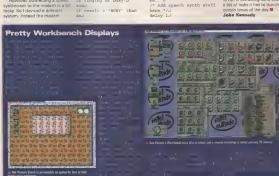
here \*/J delay 1say "Blah blah bish"dalay 1J say "Goodbye, Hanging up...".J agend 'atg\r'.J

/\* Make sure... \* " delay 14 /\* end \*/\_J

Not being able to connect the speech synthesiser has irritated me, so I'm trying to track down a GVP PhonePak The PhonePak was a remarkable Zorro II pard that never got the attention it deserved, Even today, the telacoms industry is only just starting to catching up with this Incredible card. The Phone Pak could enswer talephone cells. end store Incoming massages or hard disk it could evan understand pulse dialling codes which meant it was fully interective With a built-in Fax machine and ARexx port there was little the PhonePak couldn't do.

However, in the meantime, why not have e go at trying to automate some of your Amiga processes. If you are a Point off a BBS, you could use Wart to poll your BOSS whilst still in the BT cheap rate every morning

Keep a look out for a progrem called CyberCron es it is designed to run in the beckground end keep e list of tasks it has to launch at certain times of the day



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### LOGOS, MEANINGS AND MYSTERIES:



CD32 querie ParNET and ous other Cl ROM-related problems.

All about upgrading RAM, operating systems and processors.



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No problem is too big for CU Amiga's men in white coats. Address your technical queries to Q+A, CU Amiga Magazine, 30-32 Farringdon Lane, London EC1R 3AU.



Tony has been at it shoe he was in short trousers. He's sho been into the Amiga for a while now as well.



What binteriors
what Mat deem's
move about the
limige could be
itted on the back
if a 88080
processor only.

### PC SIMMs



I em considering purchesing an accelerator and extre memory for an A1200, Tread with interest at on the Blizzard

your product test on the Blizzard A1230-III and Apollo 1230/SCSI 2 boards where Andy Leaning describes "Fast Ram" that can be added to the Blizzard as "Industry standard 32-bit SIMMs."

Adverts however, for PC
72pm SIMMs indicate that they
can be much cheaper than those
advertised for the A1200. Can
these PC SIMMs be used on any
of the A1200 eccalerator boards?

### Colin Howard, Livingston.

Standard PC 72pm SIMMs have the chips on both sides of the 'wafer' as opposed to the PS/2 variety (as used in the A400) that have the chips on any are side

The PSZ type are harder to find and more experient The Bitters and more experient The Bitters Al 223.0 III accelerator can use either, as can the Apollo 1220 The Apollo 1230 The Apollo 1230 The Apollo 1230 The State angled SIMMs sockets to double traded SIMMs or authorised for double need SIMMs at substantially lower prices but exemplers of per prices but remember these prices of per acclude VAT (17.3% of the pitce) whith must be added on the double need to the substantial than the subst

### Flicker modes



The problem is that most of the screan modes available fincker. The PAL modes are OK as are Multiscan Productivity and Super 72 high resilicade but the DBLPAL modes flicker as does High Res Laced No Flicker Is there a problem with the monitor.

or the monitor driver in the Dava/Monitor drawer (yes ), have put the relevant drivers in the seld driver? It would not be so bad if it was only on Workbench but the same happens on DPaint

### G. Perr, Steffordahire

Actually there's nothing wrong with your monitor drivers at all. What you are seeing is a limitation of the AGA chip-set reflected in the new DBLPAL

screen modes.
The problem is that the Amiga doesn't have enough boadwidth to give the same vermal refresh rate as the single sain modes i e PAL. For instances NTSC bas a 50Hz refresh rate and is known for being less Tilliciery' than PAL (Insong MPAL has a higher vertical resolution). Etheway BALPAL does away with linevince but the overall refresh rate is 48Hz.

is 48H:

The 2Hz reduction doesn't sound
like much bot 50Hz is really the minimum to be comfortable Any less and
flicker becomes a problem A good
compromise is Productivity mode

### A4000 sampler



I own an Amrga 4000/030 end heve recently basen thinking about sampling but I cannot find

any company that makes samplers for the A4000. I have phoned Indu, Datel and Power Computing but to no eveil I was told they don't make samplers that work on the A4000. Could you please but me know if there is a company that makes them?

### D. McIntosh Dunden Scotland.

I'm surprised that such misinformation came from any of those companles. Every parallel part sumpler that we know of will work perfectly well with the A4000 The vast majority of samplers are of this kind Megalosound from Hi-Soft (tel\* 01525 718181) and Technonound Turbo II from Technical Dimensions (tel\* 01291 690933) are just two examples of samplers that will work fine with on Amaga A4000.

### DMS dilemma



1. In the May issue cover disk tutonal I followed the instructions for the DMS decompression. However, this still insists on a blank disk in the drive df0... Is at oeasible to decompless these

disks directly to a drawer on the herd drive? It so, how?

2. I wish to delete e program I no longer need which has been assigned to my heid drive. How do I get nid of the assigns in the lives startup-sequence?

### Name and eddress withheld.

1. DMS works by reading an entire disk, enck by track, and packing it ains a single file. One reason we often use DMS is that it can compress disks that use different filing systems to AmigaDos, as is the cose with many of our commercial game demos

However, you'll find that once you have decompressed the filt is to figures, those dusk will always include a hard drive taxabilianon toon wheelver soonshie. Many olternauve compress sho methods are self-defenting in the context of our cover disks, as the software needed to decompress the disassimply fills the space created by compressing it in the first place! We are not relate what a power context of the compression of the first place!

lor system for our disks, and as you will have discovered with our brilliant (if we may say so) Image FX caver disks, we'll use whatever system is most efficient and easy to use

2. User startup is just a plain text file (or script) cantoining a hist of

MSX mistake In the May usue we mutak-enly said that thers was no MSX emulator evallable for the Amige. MSX is the nam \$0h. A few randers wrote in to tell us that there is Indeed an MSX emulator on the Amiga end it performs remerkably well. If you had an MSX and would like to list up some of those sid games, why not give it a try? Ami-MSX 1.2 can be obtained from SasSoft IPD sections of the Sames who may be supported to the same of t obtnined from SeaSoft PD m 01803-850378. Ask for disk number 2760.

AmigaDOS commands When the usee-startup file is 'executed', each command is eyu in turn Installation scrupts will aften add Assign commands to this User-startum file and should annotate there insertions Here's au example

Assign Opue: sys: DOpus

End DOpus

Here you can see the lines that have been added by Directory Onus. To find them and take them out you first need

standard text edunr called Ed and file If you entered the x user-startum blank Ed window. In this case you can load the usee-startup file from the means in the usual way (it's in the S drawer of the sys paration; You can delete the appropriate hoes

Finally save the amended userstartup file back using the menus, as

### A1500 expendability I am a new



Amiga 1500 with a 40Mb hard drive I use it mostly for garning, though I hope to greduate to more senous uses I had assumed that the 1500

was a rather out of dete computer but a friend tells me that it has excellent apdete capabilities Could you tell me please if

1 can be upgraded from 2 can the A1500 (unlike the

A500/A600) be upgraded to take A1200 AGA games?

3 can I get a bridgeboard that will enable the A1500 to run PC games and other softwere?

I ve baen told so but it all sounds too good to be true!

### Martin Brennan, Dublin.

The Amuna 1500 may not be the lasest in the Annga generation but with ats Zorro II slots, it has plenty of

1 Yes, you can upgeade the A1500 to both Kicknoet 2x and 3x an Amiza dealer and chaurius a ROM chip youeself or getting some one technically muded to do it for 304 Kickstart 3.1 is also available for the A1500 though it may be ou the expensive side and 2x may well be sufficient. The jump from 13 to 2 x is burger than 2 x to 3 x 2 Unfortunately there is no way

to upgrade to the AGA chapset from

Hawevee you could add a graph-AGA games

3 Yes, a Beidgehoard in youe Al 500 will give you IBM PC com putibility foe games and applications. details on specific models. However, don't expect to euu the latest 3D games without senously upgradiug your 68000 processor

### CD32 expansion

I own an Amiga CD32, Paravision SX-1 Expansion, Cumana external

AT101 keyboard. 2Mb RAM expansion and en IBM 40Mb internal herd drive What I wish to find out is

boot up check and SysInfo I have 2 Zorro II boards which are the SX-1 and Ram expansion Does this mean that the CD32 is a Zorro based Amiga and the expansion port is a Zorro Slot. and if so is it II or III?

2. Can I use this slot vie a custom interface og the existing FMV pass through for cards like the Picasso II RTG or the

Piccola SD64?

3 Is it possible to accelerate and if so is the magical '040' available with 128Mb Ram and MMU etc?

4 If the answers to the above are ves then would a LAN sys-

tem of four or five expanded Ical/development workstation capable of producing True 24/Broadcast quality outputs?

screen and how can it be utilised in graphical/software productions?

6 Where and from whom can I find out about the inner work ings of the CD32 with references to the above style questions?

sions are no problem!

I hope that you can be of assisit very difficult to find out about the underestimated CD32, as local shops appear to know nothing other than the CD32 is a games console end not a computer

### D.J. Winterton. Portsmouth.

Work! You certainly have high hopes foe the humble CD32! Firstly, a CD32 with an SX-1 expansion has about the same capability as an Al 200 with of course some bonuses like the SIMM socket & Alaka chip It doesn't provide au Al 200 espau sion paet though Neither is the for the FMV carri sunable unless this is most uulikely. So to answee your questions .

1.2 & 3 It's meither Zorra II noe III It can't be used for Zoero cards like the graphics boards you meutioned and weither cau it be used for acceleeatoes and RAM expausion uuless such products were specifically designed foe this port. 4 The idea of networking a bunch

of 68040 expanded CD32s to ceeate some soet of 'reudee form' raused some smiles in the CU office Wouldn't that be something to seel Honever is would be completely

The mouey suvested in hardware and design would be hetter suited to machines with most of this capability as standard, such as A4000s for example

5. CDXL is simply a software technique for playing back small hox autmatiou su real time whilst spooling off CD It's not hinlt in and the software will come on a CD with

CDXL formge

The Akiko chunky to playar chin helps with this You could play these ammanons from your hard drive and output them to a videa eccordee save out in CDXL format

6. Youe plaus foe the CD32 and your electronic expensive might be of luterest to Escom, since they are plauuno multimedus stations usine ing eight now! They are also the only people with the real authority to profications of the CD32

### HD prep problems have an Amiga 1200 in which I

have installed a SupiaDive Wordsync Hard Card My Problem is that I wish to install e kickstert 2 04 ROM but my HD prep software doesn't work under 20.

With RD Prep I get the message unable to locate Staidnive device and with the hard disk tool box I get the error unable to locate scsi device. The device driver that I have is hard disk device. I have tried changing the tool type in the applications

to herddisk device with no lack If I can get the sosi driver from somewhere do you think

### David Burlay, Bridgend.

In the way of hard deve prep softwater, we recommend RD Prep The harddisk device is the specific driver foe youe hard deve suterface and 20 use it With RD Peen you would enter 'RDPeep -d hoeddisk device' at the CLI and gway you go Unite RDPren ou A600s and A1200s you would eutee RDPrep -d scst.device' Just before making chauges and weiting RDPrep cau be obtained from KT's PD 01 702-542434 disk U207

NO SAES PLEASE not respond to adors' quaries by a or over the phone. Please do not inclu-stamped addresses

### HOW WE USED TO LIVE Part 1: ACTION GAMES



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# Frequently Asked Questions

Cover disks ere great but sometimes they can cause unlimited and unnecessary heerteche. CU Amiga lifts the lid off some of the culorits.

Q. When I try to unarchive a cover disk program using DMS, all I get is the error message 'I need explode.library V4+', What's wrong?

A. This error message happens when the DMS program tries to load its code librery and fails. DMS places some of its routines in a special block of code called a library, which means they can be shared between several programs It expects to find its library in the dafault LIBS drawar and this is where the trouble can start. When you boot from a cover desk that Amiga thinks that the LIBS: drawer is on this disk. The Amme assumes that the drawer called 'libs' on the floppy is the correct location for the libraries. If the disk creators have done their job properly the cover disk should have a copy of explode.library in this drawer and everything will work fine

However, booting from either your own Workbern floopy or hard disk may esuse problems In the case, the Ampa assumes that the LBS's drawer so on one of these devices. When you lead a cover disk DMS will bolt to the libs drives mill you forn't have a copy of it or your disks. Whisheanch or thoply, then DMS will fail to find the library will be message I need supload blony W4+' will appear. To get a round this, you have

To get around this, you have two options. First of all you should make sure that you book from the cover disk. This will ensure that LIBS: points to the drawer on the

floppy with the relevant library Secondly, you could copy the library from the cover disk to your own disk. To do this, make a note of the name of the cover disk and then re-boot from your normal disk. Inot the cover disk! and then opan a shell window Let's assume the sover disk is called CU 110 in the case there is a space in the disk marrie which means you must see inverted commes around the disk marrie. To copy this bizery from the cover disk to your own disks, enter in the shell copy: "cu 110:11be/explode. 11brary."

This will copy the file across

One when I copy
cover disk files from
floppy to hard disk, I get

cover disk files from floppy to hard disk, I get arror messagas asking me to insert the original floppy agein. Why?

A. The best way to copy

programs which consist of several fixed to hard drives to open a mod drawer stopen a fixed to hard drives to open a mod drawer sepecially. Then drap all the icons over into it. Usa the "Shows-> All Files" option from tha Windrow manu on the Workbench display to make sure you haven't left any files out 'Usually it isn't necessary to copy across drawers with names like "or "it is the with names like "or "or "it is the will duplicate what is already on your hard disk."

If you run the program from hard disk and it still asks you to insert the floppy disk, it is because somewhere a 'path' is still set up to point to the figgpy. A path is a special variable which a program can use to keep track of the special files it needs. If you have already copied all the files required over to the hard disk, you can re-set the path so that it pamts to the location of the hard disk rather than the floppy. To do this, use the assign command from a Shall window For example, if we assume you have created a drawer on your

called GAME and copied over all the files from a floppy dak called CUGAME1, you should enter assign CUGAME1, WORK: GAME IN HORE CAME IN HIS WILL BE AND THE STATE OF THE STATE

'Can't cancel CUGAME!'
The essign is only temporary
In that if you switch off and
reboot, it will be forgotten To
make it permanent, you need to
add the line to the siuser-startup
file. This will make sure that it se
executed every tima the Amiga is
switched on.

When I use DMS to unpack a cover disk gama I occasionally see a message like "Warning: Disk contains non-standard bootblock". Does this mean there is a virue on the disk?

A. Not necessarily it simply meens that there is a non-standard boothlock. The boothlock is the first part of the disk to be loaded when the Amiga boots up, if there is a bootblock present, the Amiga will follow the instructions on it and may load Workberich Many softwere houses use non-standard bootblocks to add special features. end speed up loading times. That DMS program recognises that the bootblock is not standard and tells you, because in the past many virus did change the block for their own purposes. However, it is extremely unlikely that a virus

would be present on a cover disk, if you are she not heppy, here is what you should do Belons starring the DMS process switch off and remove any external flappy drives and hard drives. Boot only instructions as DMS unpacks the process of the proc

seconds before using envious control of the color of the copy of anti-virus aoftware such as Virus Checker by John Veldthuis.

Why are there so few cover disks that I can use with my Worldench 1.3 A500 and 1Mb RAM?

Because your machine is out of date. You don't expect a hi-fi magazine to include "Perpm wax disks on the cover do you? Upgrade to 24th of RAM and Workbench 2 or 3, or treat yourself to a nice A1200, either second-hand or when Escorn start churring them out again.

L is it OK for me
to upload the cover disk
to a BBS or give a copy
to a friend?

A. No. The cover disk remains the copyright of the magazine. Grung copies away is break ing the law

Q. I have written a program which I think you should put on your cover disk. What should I do with it?

■ A In the first Instance, send a copy or disk to us a CU Arrigo Afegazne. If we think that we'd like to use program, we'll be in contact streight away, so include a digitize telephone number on the covering letter if possible Send your programs to, cover disk submissions, CU Arrigo, Privoy Court, 20x32 Ferringdon Lane, London ECIR 3AU ■ Jaha Keanewy

### ack chait



Escom's takeover, unfinished demos end the glory days of the C64 are just some of the items under fire in this month's backchat.

Delivering the goods

Over the past few years I've come to expect fully functioning serious application software free with most Amiga mags, but recently I've felt cheated on a number of occasions. Why? Because I've picked up and bought certain magazines assuming that the programs on the disks were actuelly complete, but later found tham to be disabled damo versions. Maybe wa've all been spoiled, but most of the full packages can be upgraded to the latest version, so it's not as if the original developers are missing out.

I'm glad to say that CU Amiga is one of tha few mags that has not let ma down, constantly coming up with the goods Comic Setter Mavie Serter, Directory Opus and Image FX are just armaging, especially those that cervs with free manuals Please keep it up, as the rest of them seem to be falling by the wayside.

Peter Beerd London

Angry of Kent

The whole atuation with Escom sickens me Only a few months ago you and all the other magazines were sucking up to Commodore UK like there was no tomorrow. They ware put forward as savious and geniuses, but now it appears that the leopards have changed then apots and David Pleasance and Colin Proudfoot are no longer flavour of the month Why has this happened, surely as a UK mag bad enough that Garman companies are coming over here and buying up our car industry without taking over our computer industry too.

Philip Lindsay

Kent Mr. Lindsay, you have totally and unerly missed the point. Let us spell it out to you in simple English Commodore UK wahdrew their bid for the Amga and Escom went ahead and bought the company Naw Commodore UK have nothing to do with the Amiea and are unlikely to exist for very much longer So David Pleasance is pretty much out of the picture at the moment. As for your lan comment about 'Germans taking over' the UK computer Industry we might remind you that Commodore was not a 'Breith' company, li was American, with an international umbrettle organisation and individual subsidiaries in various territories, Escom have opened a result network using the former Rumbelows stores that will eventually employ 20

tones more people than Commodore did in the UK Rus most importantly, if they bring the Amiga back to tife, sell it here and encourage British software houses to produce sames again we'll all benefit. Welcome to the real world

IO OF 64

I've had more entertainment value out of my C84 than I ever did with the Amiga This news that Escom are going to restart manufacture of the C64 made ma very happy. The Amiga just doesn't match up to what the C64 did in the games, damo and mosic scene Bring back Commodore User 64 and you may be able to jump onto the bandwagon of tha new 8-bit revolution that's about to happen A new age where gameplay is more important than pupplies and the piogrammers become famous cult figures

Bob Hawkins Earls Court

> Are you being survastic or serious? OK, maybe the case could be put that the graphic limitations of the C64 made gameplay better and that more memory troofs to lanness, but returning to the stone age is surely sun a nonalgic flight of Jancy This does ruse '64' for the Chinese and eastern European market be called the Amiga Technologies 64 (tronic), the Escom 64 (unlikely), the Commodore 64 (but that name is now being used for Pentium PCsl) or the Beijing Province Factory No. 1156 649

Last minute reprieve

I've been wenting to buy a computer for quite a while now and an Amiga was top of my list Howaver due to the Commodore situation | haven't been abla to purchase one. I was considening getting an Archimedes but I still really wanted so Amiga because of the huge range of PD available. I shopped around for a secondhand one but found it vary haid to locate any Amigas for sale. I was about to give up and go ahead and but an Archimedas whan I bought your Magazine and reed that the Amige have been saved. So huiry up Escom. and get the Amiges back in the shops so I can buy one.

Adrian Betts Staffordahire

Expand or die

Expand or dia, or put it another way expand and maybe fall flet on your face. After much

head scratching I decided that I needed an accelerator with two simm sockets end the ability for SCSI 2 products to be used direct form the board. The only board I could get was the GVP A1230 II. Although it didn't use standard simms it still meant I could expand from 4 to 8Mb without having a 4Mb simm spare which is what happens with other accelerator boards. However, all my dreams of expension have now been thrown out of the window because GVP have been taken over and nobody knows what the future holds. Will I now have to buy a Squirrel SCSI PCMCIA intarface to add a syquest removable drive and a CD-ROM drive to my A1200? Only time will tell. Maybe CU Amigs can shed some light on what is going to happen with GVP products because I'm feeling as sick as a perrot about the whale thing.

### S Longdon Arbroath

ю

Funny you should ask about GVP because this month's points of view column is All about what is going to happen to GVP so turn to page 130 now.

### Right to reply Having read Andrew William's letter Gune

Beachast) I feel inclined to comment. Firstly the Cystal Dragan derine was excellent it is the first game to ever make me want to try playing an RPS as it more logical and essate to use than many of the other games ecound What do you mean complete them? And exit will be supported by the Cystal Dragan's I law, what do you espect in a demn? Compretion could be compared in a demn? Compared in our design of the stars to

the not sever.

As for the Settlers demo, it was and still is excellent. True it is not possible to wan in the demo version, the best you can do is take all but the main castle, but otherwise it's se good as playing the real thing. The demo is better in some ways then the finished geme as that seems to have hed quite of low bugs in it.



"Aw, c'mon, you guys—the cat's away on everyone's so dead serious."

### Why don't you?

Get something to say? Then just it doesn and send it to us at CU Amiga Megazine, 30-32 Farringdon Lane, Landan ECTR SAL or Email us at CLIMMIGA (Jule ammediate co.uk

Finally, I think Escorn air night to resume production of the much meligend and underimmed A600 It's a good were computer power full enough to run a hard burease as well as run fots of games and have greaf graphics and masses. And it can muttest productly which is comething most top end fict set can too. A muse, the must have the subset than my. A600 If he words to do senous stuff he still does to n his A100.

### Karen Hayes Birmingham

### What's going on?

Why are so many gemes publishers harmically uniping onto the Paystation bendwagon and leaving the Amiga? Who do they think is going to buy their games, when the machine isn't even going to be out unto floriesman? The Amiga market isn't going to disappear overinght, just because Commodore went believup, and with the new Escom plans,

things could well take of liagen a to go very Some developers shardowed the Armya a couple of years ago to go off and play with their new consolled frends. But their heat to come beet to it in the and don't hear "their come beet to it in the and don't hear "their deepins before the consoles and without it we would probably never here seen games to be a proposed, and comon froder on any What's Snooter and Comon Froder on any machine if all future games have to be sought of their play of the common the server be for their play of the common the server be for their play of their play of the three being and their play of their play of the format in their play of the

### John Willis Beckshire

### Bizarre, weird, strange

You are making a henous missate thinking on the hard your Angles is no others; computer list not the inhard with parametables. When the hard conditions are all the parametable with parametables when the making of the parametable with the pa

### Neif Dowdell Glasgow

It's a farmy old world insut?

### **TEAM TALK**

Now that summer is upon us the taem muse over what would be their idea of e perfect holiday. Here's what they came up with.

### ALAN OYKES



Sourceborn or Iraland with lets of and, our limb groups in versile be any inten of a circ holding. And I'd spend worst of any then of constance, to seri She's only a few months and must be first hand get the large of it. Pleaty of discipline that any other holds are per than large of it. Pleaty of discipline that a what there was no before most

### LISA COLLINS



Reser's the place where I'd like to spend a few has filled weeds. I could hash in the sea on the Spanish stope and worth all these tail, dark, hashnast hashes prod was according around on Yespas — heaves. Yespas and mea. a combination I can't refuse. They track middle set Ness.

### TONY HORGAN



My stee of a great babbiey weeled he to spited three weeks on a described tropical taken? But very! coold mean about making my troop in glorinus structures without anyone complexing about the recited I was making. Then I'd came back and soft very topus for a seed fertone. Drame on Even

### MAT BETTINSON



All you prevenue and mean he went helifory he the man flot one mate, if you coungly heart when it is in any native Americaia. My sides of a perfect infidity would but be they at home or England. Heart and for the heart for the perfect of the heart for th

### HELEN DANBY



This is one passing who believe the one thy idea of a left blooding in commer would be to expand my on worth time an I could in the should. If I couldn't go to account one like Scandarreagh where there's hardly any son I'd stack to staying whood a but solect push derivating few bears. Soowood's got to do it.

### JOHN KENNEOY



A het of a ha summa's haliday her seu. I'd onk tham sero people at famones had if I could appeal any heifiger at this factury swetching flow they leve the light gold. I did it leed coven time helf seen I'd take my financies her it spin me my westerbine. Welf. you'm gat to sped then soot your?

### **Next Month in CU** niga Magazine

Primal Rage demo You've read the WiPs now

see the game itself!

Plus: Full Review!

### Gaming for the future

As usual we've looked into our crystal bell, nipped down to the pub for a chet, watched breakfest talevision, used lottery pradictors, exemined pigeon entreils and counted the stones on Brighton beach in an effort to find out what games were coming In for review next month. Finally we had to resort to phoning PR people in verious softwere houses and publishers to find out. It's an original idee and it means working for a change, ea opposed to playing games all the time, but it achieved results. inconclusive results. But results ell the seme

For Instance, Alan Bunker from Teem 17 told us: "Oh ves. Speris Legecy should be ready in the next few weeks, so you should have it soon. I hope. Probably, You know what it's like, these things take time." And Allen Breed 3D? "End of July mate. Yas it might make it in time for the September issue. Actually it should do, it's due for release at the and of July, so it'll be ready for review before then I'm sure. I'll ask Richard, but I'm sure he won't confirm it yet. There's still work to be done."

And so, throwing caution to the wind yet egein, we bring you the ...er.. definitive list of softwere that will be reviewed in the next issue of CU

Amige Megazine:

- Primel Rega
- Allen Breed 3D
- Speris Legecy
- \*Legends Front Lines
- Super Streetfighter 2
- SBritish Touring Car Challenge

I wanna get technical

Next month's technical section promises to have something for averyone including a reviews of a host of plug ins for Lightwave, including:

\*Humanoids \*Fibre factory

Plus: Little Gem. a dadlcated Audio mixer specifically dasigned for your Amiga And: PC Task version 3. If you really want to emulate an inferior

machine this softwere may be able to help you.



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on t want to miss it ever again. Well, not until further notice anyway.

My address a

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# GVP: The Second Coming Second Coming And the Parkers Inval he conferred that code our part state of a filter, Her part On the Parkers Inval her parkers I

Can the new

Power Computing and M-tec buyout, resuscitate GVP

or will the once strong US Amiga

presence be stifled for ever? Mat Bettinson

speaks out ...

Why oh why?

So why de the Innovate fold
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Luckily all is not lost. The German based M-flech and the UK based Power Computing successduly bought out GVPs intellectual rights, which allows M-flech and-Power Computing to produce any or all of the GVP product range

reat Valley Products
(GVP) has been a loading smoyator and proproprisals for many years. The
secent news that GVP had filed
for Chispter 11 leguidation was
almost as sobaring as the
announcement of Commodule's
smiller fate a year ealile! A shedow'd uncertainty now hovers
over the Arraps' must farnous sia

third party brand GVP were usually the first to fill in any gaps left by Commodore. taigeting aleas in which the Amioa could be improved, and releasing top grade products accordingly From the incredibly popular A500 HD8 to the A1230 68030 acceleratois for the A1200, they led while others followed, often with cheap er and slightly better spec equipment - usually after GVP had done all the hard development work. It's hard to believe that any other comparty would have come up with such crazy and billiant products as the PhonePsk Amiga (a combined telephone answering service, voice mail and fax system)

ucts will be developed by former GVP engineers on a contractual hardly surposing that he was enthusiastic about the products GVP is known to have completed accelerators and a PCMCIA 16bit sampler) since these products are eagerly awarted by the Amiga community Perhaps GVP's expertise coupled with European management and a better undarwill lead to quality products right prices I'm of the opinion that GVP's strengths were (and rather than mass market low-and products The naw A2000 and A4000 68060 accelerators will be welcomed, but with Phase 5 already banking on shifting around 10,000 of their own 68060 boards GVP's '060 be able to compate?

New products?

My biggest worry is for the long form availability of GVP quality products. I have no drubit that Powes and M-tee intend to keep on pioducing peripherals, but as European mass market sellers they may not always lead in the same way as GVP have. If a all vary well using bought GVP uses the sellers that not all of them will have immediate mass market agreat immediate mass market agreat immediate mass market agreat.

The American merket has always been relatively small but very professional based, thus revolutionary (and expensive) products were mede there first. Sophisticated products to a sophisticated market, and the jest of us benefited.

America calling Meanwhile on the 'net there is a distinct air of depression at the

currant state of siffairs. Here in the UK we see Escom opening up 100 stores overnight Meanwhile the Americans see their must famous Armga Magazine fail, the American buyout its outside the seek of the Meanwhile there doesn't seem to be much that's Amiga and American any mole.

They would like to be leas suited that Escorn have America in it as sights, even though the US Amiga scene is very different to the predominantly hobbyest and sami-pic mass European market I want to be assured of this too, for all our sakes

Of course it is early days yet but Stateside Amiga gurus like Dava Halynie haven't head anything from Escom and that is not wewed as a good sign.

Looking to a perfect world in an ideal would l'd like to see a let moie of an averaging out in the makets on atther skife of

The UK could do with a real klokstert in the high end of the market. More big box Amigas and agnificant upgrades to low-end

Likewas the US could really do with a large influx of low-end on what has per entired for what has been as the noxt generation and the monoful computing pletform US Armaga game development would be well-development. You development have development, I'm not going to easy it's down to Escorn again, it's not. They are a business and fryout. The public, spend some money on software and hard-money on software and hard-wate, the metals will see he the US will have to be forced afficient.

Mat Battinaon is an Amiga fanatic, en evid 'nat nut and CU Amiga's latest technical recruit.

The opin and expressed in this article are not neonsearily those held by CU Amiga Magazine if you hole en opinion on this subject or any related subject then armed us et CUAMIGA⊚eux computink co uk or mat@derkstde demon co uk

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